CONSTRUCTION NEWS

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CONTENTS.

CONSTRUCTION NEWS:
Railways 1
Electric Railways 1
Light and Power Plants 2
Bridges 2
Buildings 2
Water Supply and Irrigation 4
Sewerage 4
Garbage Disposal 5
Streets and Roads 5
Manufacturing Plants 6
Contract Prices 6
Miscellaneous Contracts 8
U. S. Possessions and Cuba 8
Plans and Specifications on File 8
List of Contracts Pending 8
EXAMINATIONS 8
CURRENT PRICES OF ENGINEERING MATERIALS 9
INDUSTRIAL NOTES 12
PROPOSALS 12

(List of Contracts Pending, and the list of Plans and Specifications on file at the office of Engineering News, will be found on the last page of this Supplement.)

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

BATON ROUGE & GULFPORT.—Company has been granted authority to incorporate in Mississippi. The incorporators will be W. H. Louisell and I. M. Stevens, Mobile, Ala., and J. I. Ford, Scranton, Miss., who own 15,000 acres of fine timber lands, and will establish a mill between the Pearl River and the New Orleans Great Northern R. R., thus securing transportation facilities by both water and rail. The proposed railroad will run from Baton Rouge, La., to Gulfport, Miss., 125 miles, passing through Pearl River, Hancock and Harrison Counties, Miss.

BROWNWOOD NORTH & SOUTH.—We are officially advised that contracts will be let about Feb. 1. for constructing 30 miles of railway northerly from Brownwood, Tex. Surveys are made. Right-of-way has not been secured, but capital has been obtained. John Meade is Ch. Engr., at Brownwood. Noted on Dec. 23.

CENTRAL DOCK & TERMINAL RY.—Incorporated at Buffalo, N. Y., with $500,000 capital stock. The proposed route is from a point near the foot of Georgia St. around the city of Buffalo to connect with the main line of the New York Central & Hudson River Railroad Co., near Cheektowaga, Erie County. The Directors are S. S. Jewett, Morgan Bldg.; J. J. Albright, Fidelity Bldg., and F. H. Snell, all of Buffalo.

COLUMBUS, MISSISSIPPI & WEST ALABAMA.—This railroad will be 80 miles long, extending from Winfield, Ala., to Aliceville, Ala., via Columbus, Miss. Company has not yet decided when bids will be received. The Directors are C. F. Sherrod, Pres.; J. M. Brown, Vice-Pres., both at Columbus, Miss.; A. K. Sliverthorne, Treas., Buffalo, N. Y.; Robert Watson, Secy., Harrisburg, Pa.; A. E. Silverthorne, St. Louis, Mo., and J. A. Root, Erie, Pa. Noted last week.

CONTROLLER RY. & NAVIGATION CO.—Incorporated in New Jersey "to create and maintain a line or lines of railway, with terminals, stations and appurtenant property, which shall extend from a point on that body of water adjoining the territory of Alaska and known as Controller Bay, in a generally northeasterly direction to or near Carbon Mountain, with a branch or branches from a point on said line extending in a generally northwesterly direction to or near Mount Hamilton, together with such docks, wharves and other appurtenances at the termini of said line as may be deemed best; to create and operate lines of ocean and river steamships to transport freight and passengers, and to be operated in connection with the established railway; to construct and operate a telephone and telegraph line for use of railroad; to acquire other railroads in the same territory; to construct and operate electric plants for lighting and motor power and sell the same to municipalities and corporations; to connect with other railways and to regulate the time and manner in which persons and property shall be transported and the compensation to be paid therefor." The principal office will be located at 15 Exchange Pl., Jersey City, with the Corporation Trust Company as the statutory agent. The capital is fixed at $300,000. The incorporators are John R. Turner, H. O. Coughlan, John W. Stout, S. A. Anderson and C. B. Leggett, all registered from 15 Exchange Pl., Jersey City.

DELAWARE, LACKAWANNA & WESTERN.—We are officially advised that company proposes during 1910 to locate new classification yard near Scranton, Pa.; also to install automatic block signals between Chenango Forks and Cortland Junction, N. Y., 31 miles, and between Waterville and Utica, N. Y., 21 miles; several new stations are contemplated.

ERIE R. R.—It is announced that a contract involving the expenditure of approximately $1,000,000 has been entered into between the city of Buffalo, N. Y., and the Erie Railroad Co. The money is to be spent in the elimination of ten of the Erie's grade crossings within the city limits. Of the amount the city bears 35% and the Erie the remainder. The line to be improved is what is known as the Erie's belt line, or Niagara Falls branch, extending from the city line at Walden Ave. across the city in the northern section and to the Amherst St. city line. Ten streets are crossed en route, namely, Walden Ave., Genesee St., East Ferry St., Delavan Ave., Kensington Ave., East Amherst St., Main St., Colvin St., Delaware Ave. and Hertel Ave. Edward B. Guthrie is Ch. Engr. of the Grade Crossing Commission, 436 Ellicott Sq., Buffalo. L. H. Moore is Engr. of Grade Crossings for the Erie R. R. Co.

FLORIDA RY.—Company will build new lines during 1910, according to press reports, from Live Oak to Jacksonville and Fernandina, Fla., 104 miles; also from Perry, Fla., westward, making altogether approximately 250 miles. The company will do the construction work with its own forces. T. P. Alston is Gen. Supt. at Live Oak, Fla.

GRAND TRUNK.—See item under Buildings, Montreal, Que.

HARRISON MINERAL BELT.—Contract is reported to have been awarded to the SOUTHWEST CONSTRUCTION CO., of Keener, Ark. As officially noted on Oct. 7, "this railway is to be built from St. Louis, Mo., through Salem, Houston, Cabool and Gainesville, Mo., and Dodd City, Harrison, Jasper and Clarksville, Ark., to connect with points south to be determined later. As soon as a sufficient guarantee is raised by the local people, J. B. Taylor & Co., 30 Church St., New York, will make the final surveys and prepare for the construction. The line has been examined by W. E. McClintock, representing J. B. Taylor & Co., and has been formally reported on and financial arrangements have been made pending final surveys. Noted on Aug. 19."

IOWA & SOUTHWESTERN.—The citizens of Clarinda, Iowa, voted on Dec. 23 to aid in securing the $75,000 necessary to build this line from Clarinda to Blanchard, Iowa. The road is to start at Atlantic, Iowa, and will run to St. Joseph, Mo., passing through Villisca, Iowa; Clarinda, College Springs and Blanchard, Iowa, and Tarkio, Mo. W. F. Farquhar is Pres., College Springs; A. F. Galloway is Secy., Clarinda. Noted fully on March 11, '09.

MEXICO.—The San Juan Mining Co., of Mapimi, State of Durango, will build a 15-mile line from Mapimi to a connection with the National Railways of Mexico, at Bermejillo, Durango. Material has been bought and work will be started at once. A narrow-gage line, owned by the Penoles Mining Co., is now in operation between these two places.

NATIONAL RAILWAYS (of Mexico).—We are officially advised that contract for the Anhelo-Paredon cut-off grading and masonry has been awarded to E. M. GRIFFITH, Mexico City. The length of line is about four miles and light work, the masonry being rather expensive. James M. Reid, Ch. Engr.

NEVADA.—Officials of the New Bonnie Claire Mining Co. have compiled data and received estimates for a narrow-gage railroad from Bonnie Claire (Beatty post-office), Nev., to the company's mines, a distance of eight miles. Andrew J. Trumbo is Gen. Mgr.

NEVADA - CALIFORNIA - OREGON RY.—Contract for grading the extension from Alturas, Cal., to Lakeview, Ore., 50 miles, has been awarded to NUGENT & RICHARDSON, Lakeview, Ore.

NEZ PERCE & IDAHO.—Bonds to the amount of $125,000 were floated in Chicago recently, it is stated, to provide funds for the completion of the Nez Perce & Idaho Railroad, extending from Nez Perce to Vollmer, Idaho, twelve miles. The construction of this road was begun by Z. A. Johnson, of Nez Perce, 18 months ago. It is expected the road will be in operation by March 1.

PENNSYLVANIA R. R.—We are officially advised that the contract for the change of line and the elevation of tracks through Bristol, Pa., has been awarded to the JAMES McGRAW CO., Arcade Bldg., Philadelphia, which secured the work in competitive bidding, in which 30 contractors participated. This project was noted in detail on Dec. 9.

PITTSBURG & GREAT LAKES CONNECTING RY.—Incorporated in Pennsylvania, with $120,000 capital, to build from Elwood City, Lawrence County, Pa., to a point near Portersville, in Butler County, connecting the Pittsburg & Western and Western Allegheny railroads by a 12-mile line. J. R. Snyder is Pres., Pittsburg. The Directors include C. J. Boak, G. T. Snyder and I. Boak, Pittsburg; C. S. Armour, Girard, Pa.; W. H. Evans, Baltimore; R. G. Boak and C. H. Akens, New Castle, and P. H. Sechler, Butler, Pa.

SACRAMENTO & SIERRA.—Company will let contract for building an extension from Sacramento, Cal., at the Sacramento River, northeast to timber lands in Eldorado County, near Lake Tahoe, about 80 miles. Surveys are now being made. C. A. Smith is Pres. and J. M. Graham, Ch. Engr., Sacramento, Cal. Noted on June 10, '09.

TEXAS CENTRAL.—We are officially advised that contracts will be let in February for building an extension from De Leon, Tex., through Rising Star, to Cross Plains, 45 miles. Surveys are made and capital secured. Right-of-way has not yet been obtained. Chas. Hamilton is Vice-Pres. and Gen. Mgr., Waco, Tex.

VIRGINIA & TRUCKEE.—H. M. Youngton, Gen. Mgr., Carson City, Nev., announces that survey is being made for an extension from Minden to Wellington and the Antelope Valley.

ELECTRIC RAILWAYS.

NEW YORK, N. Y.—The Manhattan Bridge Three-Cent R. R. Co. has been incorporated to build and operate a double track street surface railroad from Flatbush and Fourth Aves., Brooklyn, to and across West St. at Desbrosses St., in the Boro. of Manhattan, a distance of five miles. The capital stock is placed at $50,000. The Directors are Andrew D. Baird, Walter Hammitt, Edward T. Horwill, Charles J. Edwards, Simon J. Harding, John H. Mowen, William F. Neu, Charles E. Perkins, Thomas P. Peters, M. B. Smith, F. W. Rowe, F. H. Tyler, F. W. Wurster, J. C. Brackenridge and Almet R. Latson.

LIMA, N. Y.—The Lima-Honeoye Elec. Lt. & R. R. Co. plans to build about 50 miles of new track this year, it is stated. E. D. Watkins, Lima, is Gen. Mgr.

ALTOONA, PA.—The American Railways Co., 904 Witherspoon Bldg., Philadelphia, has completed plans for building an electric line connecting Altoona, Gallitzin, Cresson, South Fork, Conemaugh and Johnstown. H. J. Crowley is Gen. Mgr.

The Altoona & Johnstown Ry. Co. has made application to the Public Works Committee of the City Council. Noted on Oct. 14.

SLIPPERY ROCK, PA.—The Slippery Rock & Grove City St. Ry. Co. will let contracts at once for building its proposed line to connect Slippery Rock and Grove City, nine miles. J. P. Barr is Pres.; S. L. McClure is Ch. Engr., Grove City. Surveys are made and right-of-way secured. It is announced that bids will be received on Jan. 10 at company's offices, Slippery Rock, for construction. Noted on Oct. 21 and Dec. 9.

ROANOKE, VA.—The Mill Mountain Incline Co., Inc., has been granted a charter to build its projected electric railway from Roanoke to the summit of Mill Mountain. It is proposed to commence construction this spring. Capital from $5,000 to $20,000. Incorporators are A. B. Hammond, Pres.; C. Markley, Vice-Pres.; O. L. Bottomley, Secy. and Treas., all at Roanoke, Va.

BRIDGEPORT, ALA.—The Bridgeport Electric Ry. Co. probably will build 5½ miles of electric railway, it is reported. W. D. Scarbrough, Bridgeport, Ala., is interested.

ZANESVILLE, OHIO.—The County Commissioners have granted a 25-year franchise to the Zanesville & Meigs Valley Traction Co. for its electric railway through Morgan County. The company proposes to build a line from Zanesville to Beverly, via McConnellsville. H. D. Blodgett, Zanesville, is Gen. Mgr. Noted on Dec. 23.

TOLEDO, OHIO.—The Toledo, Napoleon & Lima Ry. Co. has been incorporated in Ohio for the purpose of constructing an eelctric railway from Toledo to Lima, passing through Lucas, Henry, Defiance, Putnam and Allen Counties. Capital stock, $100,000. Headquarters, Toledo. Incorporators include M. M. Dailey, W. D. Bishoff, M. E. Donaldson, N. W. Gillette and T. E. Gillette.

The Toledo Urban & Interurban Ry. Co. plans to construct about 30 miles of new track this year. Chas. Kilgour is Ch. Engr., Cincinnati, Ohio.

INDIANAPOLIS, IND.—The Beech Grove Traction Co. has been incorporated to build a traction line from Indianapolis to Beech Grove, a distance of nine miles. Wm. H. Ogan, Pres., announces that the contract will be let for building the road as soon as the right-of-way is secured.

KOKOMO, IND.—The Kokomo Western Traction Co. has filed a petition with the Howard County Commissioners asking that a special election be called in Center Township for the purpose of voting a subsidy of $35,000 in aid of the proposed electric railway to connect Kokomo and Young America, 20 miles. This action was taken by Kokomo business men who desire that the line shall be built. The company has just been incorporated with a capital stock of $10,000. C. C. McFann, Kokomo, is Pres. Noted on Aug. 21.

The Directors of the Kokomo, Frankfort & Terre Haute Traction Co. announce that a contract will be let in the spring for the construction of an interurban railroad from Kokomo to Terre Haute by way of Frankfort.

EAST ST. LOUIS, ILL.—The Southern Traction Co. of Illinois has been granted an extension of time in which to build its proposed line. It will connect East St. Louis and Belleville. Harper Bros., East St. Louis, are the Engrs.; W. E. Trautmann, of East St. Louis, is Pres.

PORT BYRON, ILL.—The Tri-Cities & Northeastern Interurban Ry. Co. has been granted a 20-year franchise to build an electric railway on Main St., Port Byron. J. W. Simonson, Port Byron, is Pres. Noted on Aug. 5.

YORKVILLE, ILL.—The Yorkville & Morris Elec. R. R. Co. will resume construction work this spring. The railway will be 22 miles long and will connect Yorkville, Morris and Lisbon. Surveys have been made. Noted on Aug. 5. H. G. Palmer, Aurora, Ill., is Pres. and Ch. Engr.

CANTON, ILL.—The Illinois Central Elec. Ry. Co. will build a line from Norris to Fairview, Ill. L. W. Morton is Pres. and Gen. Mgr., Canton.

NEWTON, KAN.—We are officially advised that the Central Kansas Interurban Ry. Co. has been organized in Newton to build a railway from Newton through Goessel, Canton, Spring Valley, Roxbury and Gypsum, with a branch to Abilene and one to Salina, 80 miles. Gasoline motor cars will be operated over the road. C. B. Kirkland, Salina, is Treas.; O. Moorshead is Ch. Engr., Newton. Noted last week under Abilene, Kan.

BILLINGS, MONT.—Construction probably will be started this spring by the Eastern Montana Elec. Ry. Co. on its proposed line. It will be a passenger and freight line 85 miles long, to connect Billings, Laurel, Setesta, Joliet, Fromberg, Bridger, Belfrey, Bear Creek, Washoe and Red Lodge. The company is considering the extension of the line westerly from Red Lodge, through Carbon County to the valley of the Stillwater River, following it to its junction with the Yellowstone River at Columbus, then easterly through Park City to Laurel. This extension would mean at least 80 miles of additional track. Capital stock authorized, $.00,000. Headquarters, Billings. A. C. Logan, Billings, is Pres.; Daniel D. Gile, 27 William St., New York, Vice-Pres.; G. H. Kesselnuth, Billings, Secy.; George F. Benninghoff, Billings, Treas.; F. A. Kesselnuth, Billings, Engr.-in-Charge; Herbert F. Pierce, Boston, Mass., Ch. Engr.

UVALDE, TEX.—The Uvalde & Leona Valley Interurban Ry. Co. has been chartered in Texas to build a 25-mile interurban railway from Uvalde to Batesville. Capital stock, $50,000. Charles Peterson is Pres.; A. M. Avant, Vice-Pres., San Antonio, Tex.; M. M. McFarland, Vice-Pres. and Gen. Mgr.; F. J. Kuhler, Secy. and Treas., Uvalde, Tex. Noted on Dec. 23.

SHAWNEE, OKLA.—The Shawnee Elec. Ry. Co., organized to construct an interurban electric railway from Shawnee, Okla., to Oklahoma City, a distance of 40 miles, will shortly open bids, in the offices in Shawnee, for the construction materials, overhead equipment and rolling stock, the bonds of the company having been disposed of in this city. The issue is $1,000,000. The road will pass through a rich section of the coal oil and natural gas belt of Oklahoma, and will do a heavy freight as well as a general passenger business. The Standard Trust Co., of New York, 25 Broad St., is the trustee under the mortgage. New York offices are to be opened at 1 Madison Ave., with W. Sheridan Kane in charge. Henry Pegram, 4 Hanover St., New York, has been named general counsel, and W. De H. Washington, Consulting Engineer. Noted officially on Oct. 7.

GRAND JUNCTION, COLO.—Surveys have been made for the Grand Junction & Grand River Valley Ry. between Grand Junction and Fruita, 20 miles. S. M. L. McSpadden is Pur. Agent, Mining Exchange Bldg., Colorado Springs, Colo. Noted on Dec. 2.

CLOVIS, N. MEX.—The City Council has granted to E. J. Howard, J. D. Hammett and A. R. Hammett, of Moberly, Mo., a franchise for a street railway in Clovis.

MONTESANO, WASH.—Articles of incorporation for an extensive interurban trolley system have been filed with the Secretary of State at Olympia. Company will be known as the Grays Harbor Interurban Ry. Co. Capital stock, $500,000. Officers are R. F. Lytle, A. L. Pain and E. O. McGlauflin, of Hoquiam; W. H. Abel and Eldridge Wheeler, of Montesano, and A. M. Abel and Phil S. Locke, of Aberdeen. A franchise has been granted to Mr. Wheeler by the County Commissioners, as noted last week.

SEATTLE, WASH.—The Seattle-Tacoma Short Line Co., it is announced, will begin construction this month on its proposed interurban railway between Seattle and Tacoma, 65 miles. The company intends to install both the overhead trolley system and gasoline motor cars on its line. Power to operate the electric cars will be purchased. FELT & EASTMAN, 6 Bowes Bldg., Tacoma, are the contractors, as officially noted on Sept. 30. James B. Murphy, Bowes Bldg., is Pres. of the railway company.

MARSHFIELD, ORE.—Articles of incorporation have been filed with the County Clerk by the Union Traction & Terminal Co., organize to build, own and operate street car lines in North Bend and Marshfield, also connecting the two cities. Incorporators are J. M. Blake, G. W. Kaufman and R. O. Graves, of Marshefild. Capital stock, $100,000.

BRANTFORD, ONT.—T. R. Varding, Buffalo, N. Y., has applied to the Municipal Council for a franchise for an electric railway within the township.

TORONTO, ONT.—A new electric railway company is being organized in Toronto, Ont., to build line running northward from Toronto to Barrie, with branches to Owen Sound via Meaford, and to Orillia, embracing nearly 200 miles. Application will be made to Ontario Legislature for a charter. W. H. Price, Toronto, is Solicitor.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

CANAAN, CONN.—Plans are being considered by the Berkshire Power Co., for the construction of an addition to the power plant on the Housatonic River in the spring. The company will install an auxiliary steam plant to supplement its water power. H. Lyles is Secy. and Gen. Mgr.

NEW HAVEN, CONN.—The Committee on Lighting has awarded contract to the UNITED ILLUMINATING CO., 223 George St., New Haven, for electric lighting. About 630 electric lamps are used in the city. G. L. Cleck is Ch. Engr.

FULTON, N. Y.—No bids were received by the Common Council on Dec. 19 for the franchise for the distribution of electricity for light and power, offered for sale by the city.

SYLVAN BEACH, N. Y.—The Board of Trustees contemplates the installation of an electric light plant here, having an output capable of furnishing electricity for 1,000 lamps of 16 c.-p. Plant will be driven by a gasoline engine. E. J. Brown is Clk.

MINERVILLE, N. Y.—The Public Service Commission, Second District, has granted permission to the Minerville Light, Heat & Power Co. to exercise franchise granted by the town of Moriah, to operate in Minerville and Witherbee, and to issue $10,000 of capital stock, the sum of $3,634 to be used for the purchase of an electric light plant and the remainder for extensions and improvements to the plant.

UTICA, N. Y.—The ALLIS-CHALMERS CO., of Milwaukee, Wis., have secured contract to furnish the power equipment for the new factory now being built by the Utica Fine Yarn Co., which will include one 93½-kva., 600-volt, 60-cycle, 3-phase alternator direct connected to a steam turbine, a 22½-KW., 850 r.p.m., 120-volt motor-driven exciter set and a 17½-KW. 120-volt exciter driven by a 5 × 5-in. duplex double-acting automatic engine.

NEW YORK, N. Y.—It has been announced that negotiations have been completed by the Consolidated Gas Co., William H. Brawley, Ch. Engr., for the purchase of the properties of the New York & Queens County Electric Light & Power Co., and the Kings County Electric Light & Power Co., which gives the Consolidated company control of the entire lighting business of Greater New York. The Queens County company supplies electricity for lighting the Borough of Queens, and the Kings County company a large portion of the Borough of Brooklyn. The last-named company now has an application before the Public Service Commission for permission to issue $5,000,000 of bonds.

HOBOKEN, N. J.—The Public Service Corporation of New Jersey, H. D. King, Supt., Hoboken, has purchased the plant and holdings of the Weehawken Contracting Co., which has been furnishing electricity for lamps in the northern portion of Hudson County.

RIDGWAY, PA.—We are officially advised that this borough is in the market for the following material: One 125-HP. gas engine; one multi-stage or triplex power pump; four quills, with pulleys and clutches; two belts, about 22-in. × 60 ft.; one 8-in. float valve. H. B. Norton is Chn. Water Com.

FORT WASHINGTON, MD.—We are officially advised that bids were received as follows on Dec. 27 by Capt. H. L. Pettus, Constructing Q. M., U. S. A., for electric lighting system at this post: (a) Item 1, (b) deduct for meters, (c) Item 2, (d) deduct for cable, (e) Item 3, (f) Item 4: National Electrical Supply Co., Washington, (a) $1,646, (b) $49, (c) $7,744, (d) $2,299, (e) $2,102, (f) $2,141; Malcolm Hill Co., Baltimore, Md., (a) $1,095, (b) $100, (c) $6,683, (d) $2,750, (e) $1,995; Atlantic Electric Co., Inc., Norfolk, Va., (a) $1,040, (b) $71.50, (c) $7,470, (d) $2,100, (e) $1,768, (f) $1,805; McCay Engineering Co., Baltimore, Md., (a) $2,925, (b) $60, (c) $10,798, (d) $5,000; (f) $1,846; Westinghouse Electric & Manufacturing Co., Baltimore, (e) $1,485, (f) $1,736; D'Olier Engineering Co., Philadelphia, Pa., (a) $4,130, (b) $51, (c) $8,979, (d) $2,500; Walker Electric Co., Philadelphia, (e) $1,690; J. F. Buchanan & Co., Philadelphia, (a) $1,413, (b) $149, (c) $7,-968, (d) $750, (e) $660, (f) $2,800; A. D. Granger Co., New York, (a) $1,369, (c) $7,682, (d) $3,450, (e) $2,092, (f) $1,988.

TAKOMA PARK, D. C.—Bids will be received by Capt. H. L. Pettus, Constructing Q. M., U. S. A., Takoma substation, Washington, D. C., until noon, Jan. 29, for an extension of the electric lighting system at the Walter Reed Army General Hospital, Washington.

NATIONAL SOLDIERS' HOME, VA.—Bids will be received at office of John T. Hume, Treas. Southern Branch, N. H. D. V. S., National Soldiers' Home, until 1.30 p. m., Jan. 11, for material and labor for remodeling electric plant, poles, wires, etc.

*RICHMOND, VA.—Plans and specifications are on file at the office of Engineering News, New York, for furnishing the material and performing the work of constructing electric transmission lines described in plans and specifications on file at the office of E. E. Davis, Supt. Water Dept. Bids are asked until Jan. 14.

KIMBALL, W. VA.—See item under Water Supply—Irrigation.

GOLDSTON, N. C.—O. D. Barber is contemplating the construction of a power plant on Bear Creek to furnish electricity for flour mill, etc. Dam will be about 100 ft. long and 14 ft. wide and will develop about 200 HP. E. W. Myers, Greensboro, N. C., is interested.

MARIETTA, GA.—The Board of Water Commissioners has awarded contract to the ALLIS-CHALMERS CO., Milwaukee, Wis., for a 16 × 36 non-condensing engine, direct connected to a 175-KW. 60-cycle, 3-phase, 2,300-volt, 120 r.p.m. generator and a 15-KW. 120-volt belted exciter set, and also switchboard with equipment.

LA FAYETTE, GA.—The City Council will receive propositions for the installation of an electric light plant and water-works system. C. J. Hammond is City Recdr.

COLUMBUS, OHIO.—The Casparis Stone Co., of Columbus, Ohio, has awarded contract to the ALLIS-CHALMERS CO., of Milwaukee, Wis., for two large stone-crushing plants, one to be located at Havre de Grace, Md., and the other at Patterson's Creek, W. Va. The power equipment of the Havre de Grace plant includes one 750-KW., 3-phase, 60-cycle, 600-volt steam turbo-alternator; one 22½-KW. motor-driven exciter set and one 22½-KW. engine-driven exciter and switchboard; four 316-HP. Heine water tube boilers; one feed water heater and duplicate boiler feed pumps; one 200-HP., one 125-HP. and seven 50-HP. induction motors for driving various machines. The power apparatus at the Patterson's Creek plant is a duplicate of the Havre de Grace plant.

CINCINNATI, OHIO.—The Park Commission on Dec. 27 awarded contract to the UNION GAS & ELECTRIC CO. to install a complete lighting system in Inwood Park, Vine and Hollister Sts., at $4,980. This will include 20 flaming arc lamps on 50-ft. poles.

PENDLETON, IND.—The Municipal Light & Power Co. is considering plans on which to ask for bids for the construction and equipment of an electric light and power plant here. J. P. Taylor, J. B. Parson and Ira M. Holmes are Directors.

UPLAND, IND.—The Council will soon award contracts for the construction of a combined electric light and water-works plant.

TREMONT, ILL.—The capital stock of the Farmers' Mutual Telephone Co. of Tazewell County has been increased from $20,000 to $40,000.

CHICAGO, ILL.—Bids will be received by the city until Jan. 29 for furnishing and installing the lighting fixtures for the new city hall building, according to plans and specifications on file at the office of the Department of Public Works, City Hall. John J. Hanberg is Comr. Pub. Wks.

*CHICAGO, ILL.—Bids are asked by I. J. Bryan, Clk., Sanitary District of Chicago, Room 1500 American Trust Bldg., until noon, Feb. 2, for the construction of a conduit in West 39th St. The work includes the construction of either a brick or a concrete conduit, 14 ft. high and 12 ft. wide, inside dimensions, approximately 2,340 ft. long.

MONETT, MO.—Bonds have been voted for the installation of a municipal electric lighting system here.

KANSAS CITY, MO.—The Kansas City Steel Scraper Co. is contemplating the erection of a large foundry and manufacturing plant, equipped with traveling cranes, hoists, conveyors and special machinery. Power for operating the plant will be furnished from a central station, the equipment to include boilers, engine, generator, etc. The works will be equipped for electric motor drive throughout.

KIRKWOOD, MO.—The Municipal Electric Light Commission has awarded contract to the RAMING MACHINE CO., of St. Louis, Mo., for the installation of a 180-KW. generator and 230-HP. engine. The new equipment will more than double the present output of the plant.

RALSTON, OKLA.—See item under Water Supply—Irrigation.

STILLWATER, OKLA.—Bids will be received by the State Board of Agriculture, State Agricultural and Mechanical College, Stillwater, until Jan. 15 for the construction of power house and heating plant. Estimated cost, about $15,000. J. H. Connell, of Stillwater, is Pres.

FT. BAYARD, N. MEX.—See item under Manufacturing Plants.

MISSION CITY, WASH.—Mission Light & Power Co. has been incorporated with a capital stock of $50,000 for the supply of light to Mission City.

TACOMA, WASH.—Articles of incorporation of the Sergeant Heating Plant Co., of Tacoma, were filed at the Auditor's office by W. P. and E. L. Sergeant and B. S. Douglas, Trustees. The company will manufacture heating plants and conduct a hardware and merchandise business. Capital stock, $10,000.

OROVILLE, CAL.—The Deer Creek Power Co. was incorporated here on Dec. 15, when the articles of incorporation were filed with the County Clerk. The capital stock of the corporation is $100,000. C. C. Royce, of Chico, Cal., is interested.

LOS ANGELES, CAL.—According to the Los Angeles "Examiner," trust deeds involving $30,000,000 in bonds and executed in favor of the Harris Trust & Savings Bank of Chicago and the Los Angeles Trust & Savings Co. of Los Angeles were filed in seven counties of Southern California on Dec. 21 by the Southern California Edison Electric Co. In this action the company legally establishes the financial organization of the new company, which was incorporated under the laws of California as the Southern California Edison Electric Co. on Sept. 1. The new company took over all of the holdings of the old Edison Electric Co., which was incorporated under the laws of Wyoming, the property of the company at that time being of an estimated value of $2,000,000. Immediately after reorganization was determined upon it was decided to enter upon a still more extensive expansion of the companies' interests and for this reason the capital stock was increased when the new incorporation was effected. At present there is a sum of over $18,000,000 which may be used for improvements and extensions. Part of this money will be spent in the construction of two great power plants on the Kern River, the buildings and improvements in the city of Los Angeles and in extending the system throughout Southern California.

CHICO, CAL.—A. B. Bevens, of Los Angeles, Cal., will install a steam power pumping plant here.

TUSCON, ARIZ.—The Helvetia Copper Co., operating 40 miles southeast of here, has ordered the installation of an electric power plant.

RAY, ARIZ.—Plans are being made by the Ray Consolidated Copper Co. to install a subsidiary electric power plant at its main working shaft in order to prosecute development on ore bodies until the main electrical shaft at Winkelman is completed.

QUEBEC, QUE.—The Quebec Ry., Light & Power Co. will soon place contracts, it is stated, for the construction of a substation at St. Anne de Beaupre.

HAMILTON, ONT.—The City Council has awarded contracts for electrical equipment for the pumping plant at the Beach, including the installation of two 500-HP. motors, with all equipment, two transformers and pumps. The WESTINGHOUSE CO., Traders' Bank Bldg., Toronto, secured contract for motors and transformers, at $16,624, and also for motors, pumps, etc., for annex sewage disposal plant, at $4,000. The JOHN McDOUGAL CALEDON IRON WORKS, Traders' Bank Bldg., Toronto, for pumps, at $7,220.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

WORCESTER, MASS.—A steel foot-bridge will be constructed at the new factory of the Warren Leather Goods Co.

NEW YORK, N. Y.—Bids were opened as follows on Dec. 29 by the President of the Borough of the Bronx for constructing a bridge and approaches over the Bronx River at East 180th St.: Haggerty Contracting Co., 2459 Davidson Av., New York, $28,442; L. J. Moran, $28,280; Leahy Contracting Co., $28,715; Briggs & McLaughlin, $30,139.

NEW YORK, N. Y.—Bids were opened for constructing a bridge across the Bronx River, connecting Becker Ave., The Bronx, with Wakefield Ave. in Yonkers: J. C. Rodgers, Jr., Baychester, N. Y., $41,903; Haggerty Contracting Co., 2459 Davidson Ave., New York, $37,785; Briggs & McLaughlin, $39,562; Leahy Contracting Co., 1446 Prospect Ave., The Bronx, $37,785.

The following were the bids received by the President of the Borough of The Bronx for constructing bridge and approaches on Jerome Ave., over the Mosholu Parkway Drive: W. J. Brennan, $119,862; McDonald & Barry, Webster & Tremont Aves., New York, $98,982; William Lendine, $72,522; J. C. Rodgers, Jr., Baychester, N. Y., $82,-180; Alamo Construction Co., 215 West 125th St., New York, $95,295; D. Cuise & Co., $81,-806; Haggerty Contracting Co., 2459 Davidson Ave., New York, $98,490; L. J. Moran, $78,698.

LONG BRANCH, N. J.—A committee of the County Board of Commissioners on Dec. 27 decided to rebuild the Gooseneck bridge.

*PHILADELPHIA, PA.—Bids are asked by George R. Stearns, Dir. Dept. of Pub. Wks., until noon, Jan. 18, for Schedule A, superstructure of a steel beam and girder bridge, encased in concrete, at Wissahickon Ave., over the Richmond Branch of the Philadelphia & Reading Ry., 38th Ward. Also for constructing a branch sewer in Tenth St. and Chelton Ave., 3½ ft., of brick, 42d Ward.

ROANOKE, VA.—The Wasena Land Co., P. S. Miller, Pres., will construct two steel bridges across the Roanoke River.

DOVEREL, GA.—Terrell and Randolph Counties will soon construct a steel bridge over Nockaway Creek near here.

*JACKSONVILLE, FLA.—Bids will be received by F. J. Hyde, Chn. Bd. of County Comrs. of Duval County, Court-House, Jacksonville, until 9.30 a. m., Jan. 21, for furnishing and erection, complete, of three steel and concrete bridges according to plans and specifications on file in the office of Gail L. Barnard, County Engr. Plans, specifications and other data will be furnished upon application to the County Engineer, Room 9, Court-House, Jacksonville.

JUPITER, FLA.—The Palm Beach County Commissioners, West Palm Beach, Fla., contemplate the construction of a bridge across the Loxahatchee River here in connection with building of roads.

GREENWOOD, MISS.—The Le Flore County Commissioners will issue $100,000 of bonds for the construction of bridges.

SHREVEPORT, LA.—Plans have been approved by the Government for the construction of a free wagon bridge across the Red River connecting Shreveport and Bossier City. Estimated cost, between $200,000 and $300,000. Work of construction will begin before March 1. S. A. Dickson is Mayor.

LOCKLAND, OHIO.—The Board of Commissioners of Hamilton County have opened bids for constructing a concrete bridge over Mill Creek, on Benson St., between Lockland and Reading. Peter Praechter was low bidder, at about $8,000.

BUCKLEY, ILL.—Bids will be received until 10 a. m., Jan. 12, for the construction of the Kauffman bridge to be built on the line between Loda and Artesia Townships. Plans, etc., are at the office of the State Highway Commission, Springfield, Ill. W. Strouse is Town Clk.

CAIRO, ILL.—The Missouri Pacific Ry. System, St. Louis, Mo., has let contract to the GOULD CONSTRUCTION CO., 517 Lane Bldg., Davenport, Iowa, for constructing concrete arches here requiring 4,200 cu. yds.

MASON, ILL.—TOM BLACKBURN, Lincoln, Ill., has been awarded contract, at $12,000, for the construction of a bridge over Salt Creek, between Mason and Menard Counties.

BURLINGTON, IOWA.—The CLINTON BRIDGE & IRON WORKS, Clinton, Iowa, has been awarded contract for the construction of a bridge at Main St. Estimated cost, $10,000. J. F. Winters is City Engr.

DAVENPORT, IOWA.—The Board of Commissioners of Scott County contemplates constructing several small steel and reinforced-concrete bridges. Julius Sanders is Chn.

HUTCHINSON, KAN.—We are officially advised that the City Commissioners have decided to construct a single reinforced-concrete arch, with a 50-ft. clear span over Cow Creek, at the intersection of Main St. and Ave. A. G. L. McLane, City E[illegible] reports that it will be possible to [illegible] the creek with a single arch, as a rise [illegible] seven feet may be secured. The br[illegible] will cover the creek for a distance of [illegible] ft., with an area of approximate[illegible] sq. ft. He will prepare plans, wh[illegible] approval by the Commissioners, will[illegible] mitted to the contractors for bids.

NEBRASKA CITY, NEB.—Bids a[illegible] until noon, Jan. 11, by the Board o[illegible] Commissioners, for the constru[illegible] bridges. S. P. Young is County Clk

LINCOLN, NEB.—Bids have been [illegible] as follows by the city for the con[illegible] of the concrete culvert over Antelo[illegible] from N to P Sts.: C. D. Campbell, [illegible] $39,900; Tanner Bros., Minneapolis, [illegible] $41,949; Katz-Craig Constructio[illegible] Omaha, Neb., $41,161; J. W. Tur[illegible] provement Co., Des Moines, Iowa, [illegible] J. H. Mullen, Lincoln, $43,000; Abel[illegible] erts, Lincoln, $46,833; John Schram[illegible] coln, $46,200; Gerstenberger & Good[illegible] coln, $42,550.

KANSAS CITY, MO.—The Union [illegible] Bridge & Terminal Co. has let con[illegible] to McCLINTICK, MARSHALL CO., Pi[illegible]burg, Pa., for the superstructure of a brid[illegible] over the Missouri River, at First St. and [illegible] Ave. Waddell & Harrington, Engrs., [illegible] City.

The Missouri Pacific Ry., James W[illegible] Way, Consulting Engr., St. Louis, Mo., will con[illegible] struct a bridge across the Kaw River, [illegible] three piers sunk to bed rock, 742 ft. long, from [illegible] abutment to abutment, four steel spa[illegible] low-est cord of which is to be 30 ft. above low-water mark.

MURFREESBORO, ARK.—Bids are asked until Jan. 11 by the County Commissioners for the construction of a single span steel bridge 200 ft. in length. Estimated cost, $8,000. S. J. Thomasson, Murfreesboro, Ark., is Engr.

DALLAS, TEX.—The Dallas County Commissioners have approved specifications for the proposed bridge to be constructed at Miller's Ferry, between Dallas and Hutchins. Estimated cost, $90,000.

ALTAIR, TEX.—We are officially advised that the San Antonio & Aransas Pass Ry. Co. contemplates building a 275-ft. through-truss span, and two plate girder span approaches, 40 and 60 ft. long, respectively, supported by concrete piers on their line across the Colorado River at Altair, Tex. The embankments on the new alinement to the bridge will contain about 35,000 cu. yds. of earth. Bids will be asked. Hans Helland is Supt. Maintenance of Way.

OKLAHOMA CITY, OKLA.—The Oklahoma County Commissioners have awarded contract to KANSAS CITY BRIDGE CO., 105A East 15th St., Kansas City, Mo., for the construction of 34 one-beam bridges; nine bridges to be 30 ft. long, nine 28 ft., eight 26 ft., and eight 24 ft.

SEATTLE, WASH.—The Board of Public Works on Dec. 21 awarded contract for the construction of a drawbridge over Salmon Bay to the INTERNATIONAL CONTRACT CO., 738 New York Block, Seattle, at $16,005.

TROY, ORE.—Contract for building the 175-ft. span steel bridge across the Grande Ronde River at Troy has been let by the County Court to the COLUMBIA BRIDGE CO., of Walla Walla, Wash., and Portland, Ore., at $7,984. Price includes all furnishing of materials, tools, appliances, labor and the erection of the bridge ready for travel.

PORTLAND, ORE.—Plans and specifications are on file at the office of Engineering News, New York, for furnishing all material and building a steel viaduct over Sullivan's Gulch on East Twelfth St. The viaduct will be composed of six 32-ft. and two 64-ft. deck plate girder spans which are supported on steel bents, concrete pedestals, and concrete abutments, and will provide a roadway 40 ft. wide and two sidewalks each ten feet wide. Bids are asked until Jan. 14. Waddell & Harrington, Consulting Engrs., 608 New Nelson Bldg., Kansas City, Mo.

SANTA BARABARA, CAL.—F. F. Flournoy, County Surv., has estimated the cost of bridges to be constructed on the Goleta Road at $28,000. A concrete bridge with a span of 45 ft. will be constructed across the Maria Ygnacia Creek. Other bridges are required across Williams Canyon Creek, Bartlett Canyon Creek and Glen Annie Creek. A number of culverts are to be constructed on Hollister Ave. and a steel and concrete structure on the Modoc Road will cost $4,000.

LOS ANGELES, CAL.—The Pacific Electric R. R. Co. has applied for permission to erect four bridges across the Cerritos Slough. J. O. Marsh is Engr., Pacific Electric Bldg., Los Angeles, Cal.

C. Leonardt, H. W. Hellman Bldg., Los Angeles, has submitted the lowest bid, at $6,850, for the construction of concrete coping and railing for the Main St. bridge across the Los Angeles River.

SACRAMENTO, CAL.—C. M. Phinney, County Surv., on Dec. 20, submitted a report to the Board of Supervisors placing the estimated cost of the proposed Sacramento-Yolo County bridge to be used also by the Southern Pacific Ry. Co. in crossing the Sacramento River here at $160,670. Drawings made by the surveyors of the two counties and the Southern Pacific Ry. Co. engineers allow an overhead structure for teams and pedestrians. The lower level will be used by the railroad tracks.

BUILDINGS.

BOSTON, MASS.—The proposed East Boston court-house and police building will be soon under construction. The architects' plans are ready. The building is to be located in Central Sq. Park. A portion of it is to be three stories, the greater portion two stories, with basement, and will cover approximately 10,000 sq. ft. of land. It is to be built of tapestry gray brick, with terra-cotta corners and limestone basement story. It is to contain accommodations for Police Division 7 and the District Court for East

Boston ... The cells are to be somewhat larger than ... regulations of the Massachusetts Prison ... commission require. Cells for males, fema... and juveniles are to be entirely separ...

SP...FIELD, MASS.—The contract for the ... construction of the new municipal grou... buildings, Contract No. 2, was awar... on Dec. 30 to the A. E. STEPHENS Co., ... Binghamton, N. Y., the figures being ...02,118, or $118,657 less than the lum... proposal of the Stephens com... pany according to the Springfield "Repub... lican." The deduction of this sum was made ...sible after the Municipal Building Commission had taken into consideration 36 alter... bids as submitted by the win... ners. ...e contracts for heating and ven... tilati... plumbing and electrical work were not ...rded on Dec. 30. A complete list of bids ... Contracts Nos. 2 to 5 was given last week. ...ids on this work were received on Dec. ...

W...CHESTER, MASS.—George C. Halcott, Sup... Pub. Bldgs., has plans ready for the proposed Lamartine St. school, which he estimates it will cost $125,000 to build. Plans and specifications have been completed for a 12-room school-house three stories in height, containing an assembly hall and an unfinished story, the whole equivalent to a 20-room school-house, as proposed to be erected upon land now owned by the city on Meade St., in accordance with the approval received from the Committee on School-houses of the School Committee.

STORRS (Eagleville post-office), CONN.—Bids are asked by Thomas D. Bradstreet, State Comptroller, Hartford, Conn., until 10 a. m., Jan. 15, for the construction of four cottages and one dining hall at the Connecticut Agricultural College, Storrs, Conn. Bids will be received at Room 50, State Capitol, Hartford, Conn. Plans may be obtained of the members of the Commiттee, of Charles S. Palmer, Arch., Meriden, Conn., or C. H. Preston, Arch., Norwich, Conn. Charles M. Jarvis, New Britain, Conn.; C. A. Capen, Willimantic, Conn., and L. J. Storrs, Mansfield Center, Conn., are the Committee.

PUTNAM, CONN.—The Town has made an appropriation of $55,000 for the construction of a school building. Edward Mullen is Chn. of Com.

TORRINGTON, CONN.—The plans of Charles S. Palmer, Arch., Meriden, Conn., for the state armory to be built at Torrington, Conn., have been accepted. It is stated that proposals will be advertised for within a few weeks.

BERLIN, CONN.—Bids will be received by Max J. Unkleback, Arch., 162 Main St., until noon, Jan. 8, for a complete heating and ventilating system for an 8-room school building in the Kensington District, Town of Berlin. Proposals must be addressed to John T. Molumpy, Chn., Berlin.

*KINGS PARK, N. Y.—Bids are asked by the State Commission in Lunacy until 3 p. m., Jan. 26, for the construction, including plumbing, heating and electric work, of four cottages for chronic patients at the Kings Park State Hospital, Kings Park, N. Y. F. B. Ware is State Arch.; the Capitol, Albany; T. E. McGarr, Secy. of Comn.

NEW YORK, N. Y.—We are officially advised that C. R. Van Buskirk, Arch., 187 Montague St., Brooklyn, has plans ready for a 3-story frame and asbestos block non-fireproof bath house, hotel and dance hall, to measure 100 × 385 ft., for P. J. Geneas, to be erected on Ocean Ave., Coney Island, at a cost of $75,000 for the building and $25,000 for equipment. It will contain 40 rooms, 4,000 bath houses, and a concrete plunge tank. Contract will be awarded Jan. 10. Dynamos, motors, boilers, and drying machines will be needed. There will be a theater on the roof. Noted on Dec. 16.

Robert F. Almirall, Arch., 51 Chambers St., has filed for the Commissioner of Public Charities, plans for a 3-story pathological building, to be erected on Blackwell's Island, at a cost of $46,000.

The Elnsworth Construction Co. has had plans prepared for a 12-story elevator apartment house to be erected at the corner of Riverside Drive and 113th St., at a cost of $750,000. The building will have a frontage of 75 ft. on the drive and 92.9 ft. on the street. Neville & Bagge, 217 West 125th St., are Archs.

Plans have been filed for a 6-story apartment house to be erected at the northwest corner of Amsterdam Ave. and 108th St. for the I. Judis Building & Construction Co. The building will have a frontage of 100.11 ft. on the avenue and 89.11 ft. on the street. B. W. Levitan, Arch., 20 West 31st St., estimates the cost at $100,000.

Plans for an 8-story apartment house, to contain suites for 41 families, have been filed. The building is to be built from designs by Mulliken & Moeller, 103 Park Ave., on 111th St., east of Broadway, for the Carnegie Realty Co., Charles Newmark, Pres. It is to cost $225,000.

NEW YORK, N. Y.—On Dec. 30 Justice Dowling, of the Supreme Court, denied W. J. Schieffin's application for a permanent injunction restraining the Board of Estimate and the Bridge Commission from letting the contract for the municiual building. As soon as the injunction was denied the contract was let to the THOMPSON-STARRETT CO., 49 Wall St., the lowest bidder. The company offered to erect the building for about $5,000,000. Earlier in the day the Board of Estimate approved of modified plans for the foundations. In a northerly section of the site it has been impossible to reach bed rock without going down 180 ft. and on the recommendation of McKim, Mead & White, Archs., 160 Fifth Ave., the foundation there will rest on caissons on sand. In the issue of Dec. 23 was published the complete list of bids received on Dec. 20 by J. W. Stevenson, Comr. of Bridges, for the above work.

Plans have been filed with the Queens Bureau of Buildings by the Sisters of the Poor of St. Francis, Henry and Concord Sts., Brooklyn, for the proposed St. Anthony's Hospital, a $500,000 structure, to be located at Woodhaven, on the block bounded by Woodhaven and Vanderveer Aves. and Fulton and Elm Sts. The building is to be a 5-story and cellar brick and cement fireproof structure, 338.10 × 279 ft. The grounds cover eight acres. The floors will be of concrete and the light, heat and ventilation and all sanitary arrangements will be of late system. There will be 16 big wards and 20 or more small wards. On the third floor will be located a chapel, and on the fourth floor a children's play room and amusement hall with galleries. The operating rooms, directors' rooms, and dining rooms and kitchens, will be located on the first floor, and doctors' examination wards on the second.

Plans have been filed for three 5-story flats to be erected on 179th St. west of Broadway, each to contain 21 suites of apartments, from designs by John Hauser, Arch., 360 West 125th St., for the Hargood Realty Co., Harry Goodstein, Pres, the three to cost $165,000.

NEW YORK, N. Y.—The Board of Directors of the Bushwick Hospital are planning a new hospital building, work on which, it is expected, will be started within a year. The hospital officials have about completed negotiations for a new site, and will take title on Jan. 15, according to a statement given out recently. The site is located at Howard and Putnam Aves., a short distance from the present building, at Howard Ave. and Monroe St. The plan for the new hospital calls for a structure to cost about $75,000. It will be of modern construction. The preliminary plans for the structure show a 4-story and basement building, to be built of iron, stone and brick. The site is 100 ft. square.

A model tenement, which is to cost $100,000, is to be built for the City & Suburban Homes Co., 42 East 23d St., on 63d St., 175 ft. west of Amsterdam Ave. The plot has a frontage of 137.6 ft. and is 87 ft. deep. The house will be six stories in height and will be built in accordance with plans made by P. H. Ohm.

Schwartz & Gross, Archs., 347 Fifth Ave., have completed plans for an 8-story structure fronting on Riverside Drive, Audubon Ave. and 157th St., in the old Audubon Park section. The cost is placed at $600,000. It will be built for Centre Realty Co., H. D. Lounsbury, Treas.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Jan. 17, by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, (1) for the general construction, etc., of additions to and alterations in Boys' High School, on the westerly side of Marcy Ave., between Madison St. and Putnam Ave., Boro. of Brooklyn; (2) for fire protection work at Public School No. 15, Third Ave., corner of State St., Boro. of Brooklyn; (3) for the general construction, etc., of additions to and alterations in Public School No. 7, on the southerly side of Van Alst Ave., about 106 ft. east of Flushing Ave., Astoria, Boro. of Queens.

BUFFALO, N. Y.—The Keystone Warehouse Co. will built a 1-story warehouse, 150 × 1,000 ft., on the Blackwell Canal near Michigan St. It will be constructed of corrugated iron. J. H. Poole is Secy., 541 Seneca St.

NAPANOCH, N. Y.—See Elmira, N. Y.

ELMIRA, N. Y.—Bids are asked by Col. Joseph F. Scott, Supt. of Reformatories, New York State Reformatory at Elmira, N. Y., until noon, Jan. 15, for furnishing structural steel and iron work, exclusive of erection, for the hospital building at the Elmira Reformatory; and for the steel and iron work, exclusive of erection, for the mess hall and kitchen at the Eastern New York Reformatory at Napanoch, N. Y. F. B. Ware is State Arch., the Capitol, Albany, N. Y.

SYRACUSE, N. Y.—Plans are being prepared by C. M. Hirschfelder and C. W. Eldridge, Associate Archs., 406 Exchange Pl. Bldg., Rochester, N. Y., for a church building for the Holy Trinity Church, Rev. John Reuland, Pastor, to be erected on Park St. It will be built of pressed brick and structural iron and will cost $50,000.

ERIE, PA.—Cyrus K. Porter & Son, Archs., 78 West Eagle St., Buffalo, are preparing plans for a 7-story and basement store and office building (remodeled), 64 × 140 ft., for the Scott Estate. J. P. Smart is Secy., Scott Block, Erie.

PHILADELPHIA, PA.—John L. Fry has commissioned E. Allen Wilson, Arch., Land Title Bldg., to plan 17 3-story houses he intends erecting at Broad St. and Lycoming Ave., and for a number of 2-story houses in the rear.

W. E. DOTTS & CO., 148 North Second St., have the contract for the 4-story brick and terra cotta apartment house to be built at Broad and Venango Sts., for Samuel G. Silberman. The building will measure 40 × 108 ft. and will cost about $85,000.

Plans are in preparation by E. Allen Wilson, Arch., Land Title Bldg., for four 3-story apartment houses to be built at 46th and Walnut Sts. for Clarence R. Siegel. Each will measure 40 × 80 ft. and will contain six 7-room suites. Every suite will have its own portico and will be finished in hardwood. The cost of the four buildings will be about $100,000.

Plans have been finished by Watson & Huckel, Archs., 1211 Walnut St., for a building, which will occupy the site of the present Boothby restaurant at 1229 Chestnut St. Builders will be invited to estimate upon construction in about two weeks and it is hoped to break ground for the structure Feb. 1. Including the ground, which is valued at $1,250,000, the building will cost $2,500,000. It will be erected for the Colonial Realty Co. William L. Ludascher is Pres.; Herman L. Winterer, Vice-Pres.; Henry Schimpf, Jr., Secy. and Treas., and Charles Pfeifer, a stockholder. Upon completion it will be turned over to the Fairmount Hotel Co., a corporation about to apply for a charter. The building will be of ornamental design, 84 ft. on Chestnut St. and 145 ft. deep, 20 stories high.

Henry R. Schoch has had plans prepared by Morris Dillon for the erection of a 6-story concrete garage and office building to be erected at 144-46 North Broad St., at a cost of $75,000. It will measure 51 × 83 ft.

PITTSBURG, PA.—Bids for the erection of the Eighteenth Regiment Armory on the Schenley Farms property in Bellefield will be advertised for at once and it is expected that on Jan. 19 the Armory Board will decide when operations on the building shall begin. The Board will meet in Philadelphia that day and select the contractor for the armory. Col. A. J. Logan, Eighteenth Regiment.

WASHINGTON, D. C.—The approved plans for the completed Engineer School and post at Washington Barracks, according to latest revision, will require an expenditure of about $780,000. The plan includes buildings in addition to those already provided, which, arranged in the order of their immediate importance, and with the estimated cost of each stated, are necessary, as follows: Completion of stable, $1,700; buildings for post headquarters, engineer school, library, and museum (post power-house, heating plant, and trade schools), $429,000; bachelor officers' quarters, $70,000; completion of west barracks (Barracks No. 2), $40,000; store sheds for lumber, coal, pontoon material, wagons, etc., $25,000; observatory, $3,000; roads, walks, sidewalks, sewers, water supply, gas, and electrical distribution, $25,000; six sets N. C. O.'s quarters, $66,000; one new stable, $20,000; quarters for chaplain, $20,000; post hospital, $66,000; quarters for hospitall stewards, $10,000.

It is probable that the Department of Justice will be authorized to expend the following moneys for various public works during the fiscal year ending June 30, 1911: For work at the Washington, D. C., court-house and repairs thereof, $5,000; for continuing the construction of the U. S. penitentiary, Leavenworth, Kan., $100,000; for continuing the construction of the U. S. penitentiary at Atlanta, Ga., and the wall around same, $100,000; for continuing the construction, including necessary materials and machinery of the U. S. penitentiary, McNeil Island, Wash., $25,000; for the construction of a new family building at the National Training School for Boys, Washington, D. C., $45,000.

Bids were received as follows on Dec. 29 by the Superintendent of the U. S. Capitol Building and Grounds, Washington, for furnishing the interior stone work for the Court-House Addition, Washington, D. C.: Vermont Marble Co., Proctor, Vt., $24,000; Hilgartner Marble Co., Baltimore, $28,985; Blue Ridge Marble Co., Nelson, Ga., $20,780; B. A. & G. N. Williams, New York, $49,975; Rutland-Florence Marble Co., Rutland, Vt., $20,778; Alabama Marble Co., Gantt Quarries, Ala., $25,000; William Bradley & Son, New York, $24,979.

PORTSMOUTH, VA.—Two school buildings of twelve and eight rooms, respectively, for the accommodation of white pupils, and a 12-room building for negro pupils, are absolute necessities in Portsmouth, according to a report transmitted to the School Board recently by a special conference committee, appointed to confer with the Finance Committee of the City Council in regard to the needs of the public school system here. The Committee recommended, in a majority report, the erection of these buildings, at a total outlay of $95,000, and the Council will be asked to provide the funds necessary for these additions to the school facilities in Portsmouth. To acquire land and erect two buildings of eight and twelve rooms, respectively, for white pupils, the Committee estimates that $65,000 will be required. To equip these buildings, $5,000 will be required, it is figured. For the acquisition of land for a negro building and the construction of a 12-room structure, $25,000 is the estimated outlay, making a total of $95,000.

MERIDIAN, MISS.—Bids are asked until 3 p. m., Feb. 8, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the extension, remodeling, etc. (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and standard clock system) of the U. S. post-office and court-house at Meridian.

MEMPHIS, TENN.—The SOUTHERN FERRO CONCRETE CO., Equitable Bldg., Atlanta, Ga., has been awarded the contract to erect a 7-story reinforced-concrete, fireproof hospital, 168 × 70 ft., for the Baptist Memorial Hospital Association. The contract was awarded on Dec. 21. John Gaisford, Randolph Bldg., Memphis, is Arch.

COLUMBUS, OHIO.—It is probable that the Board of Directors of the Union Station will decide to enlarge the train-shed by moving the north wall 40 ft. to the north, so that two more tracks may be placed under cover. The Board meets in January. The cost of the proposed improvement will be about $50,000 if it is carried out.

OTTAWA, OHIO.—Frank L. Packard, Arch., Hayden Bldg., Columbus, Ohio, has been selected by the County Commissioners of Putnam County to draw the plans, prepare the specifications and superintend the work of building a $200,000 court-house at Ottawa. The exact nature of the construction of the building, or any details, are yet undecided. Preliminary plans are now under way in Mr. Packard's office.

ATHENS, OHIO.—Bids were received as follows on Dec. 28 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Athens, Ohio: Charles McCaul Co., Tenth and Sansom Sts., Philadelphia, $81,795; Charles W. Gindele Co., Chicago, $88,500; James de Vault & Son, Canton, Ohio, $79,500; Thiele Construction Co., Johnstown, Pa., $88,535; George Baker Long, Lexington, Ky., $91,887; McHenry Beatty Co., East Liverpool, Ill., $88,300; M. P. Wells, Philadelphia, $75,402; John G. Unkefer & Co., Minerva, Ohio, $72,792; Barnes Bros., Manchester, Va., $90,000; William H. Fissell & Co., New York, $87,300; Cecil L. Saunders, Clifton Forge, Va., $77,700; George S. Fenzel, Athens, Ohio, $81,803.

INDIANAPOLIS, IND.—Charles Mayer & Co., 29-31 West Washington St., will remove to temporary quarters soon in order to have a new building, plans for which have been drawn by Rubush & Hunter, Archs., American Central Life Bldg., Indianapolis, erected on the old site. The building will cost approximately $150,000. It is expected that work will begin about April 1 and that the building, which is to be ten stories high, will be ready for occupancy by December, 1910. The building will have a frontage of 35 ft. and will have a depth of 195 ft., running back to Pearl St. While the building is in course of construction Charles Mayer & Co. expect to carry on their business in the building now occupied by The Indianapolis "News," which will remove to the building in course of construction across the alley from the present location.

TERRE HAUTE, IND.—James Boslog and Thomas McGuire will soon ask for bids for the erection of a large apartment house on the site of the building recently destroyed by fire.

PEORIA, ILL.—Plans for the erection of the building which the First Trust & Safe Deposit Co. will erect at Main and Jefferson Sts. have been completed. The Board of Directors has instructed R. T. Newberry, Arch., The Temple, Chicago, Ill., to prepare plans for the construction of the building at once. The first step in the financing of the structure was taken when $70,000 was paid on the outstanding mortgages of $95,000 against the property and plans were made for paying the balance within a few days. The officers of the company are: Pres., Eugene E. Prussing, Chicago; Vice-Pres., Col. William J. Conzelman, Pekin, Ill.; Secy., Harry F. Prussing, Chicago; Treas., Dr. Franklin D. Kelly, Peoria; Counsel, John S. Stevens, of Peoria. The material for the building will be light colored stone for the first two stories, the next ten stories will be light facing brick, the last story and facing for the half story for the roof light stone. The entrance will be on Adams St. and three high-speed elevators will furnish access to the upper stories of the building. The plans being drawn contemplate the free use of marble in the interior. The first and second stories will be extra high and the second story will be adapted for banking purposes with full sized plate glass windows. The basement will be finished for a cafe.

BEATRICE, NEB.—Bids were received as follows on Dec. 29, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for the construction of a post-office building at Beatrice, Neb.: J. H. Wiese, Omaha, Neb., $54,872; Northwestern Construction Co., Wahpeton, S. Dak., $53,000; General Construction Co., Hathaway Bldg., Milwaukee, Wis., $49,500; Hazelton & Walin, Chicago, $47,000; Northern Construction Co., Milwaukee, Wis., $50,340; W. G. Campbell, Lincoln, Neb., $45,475; P. M. Hennessey Construction Co., St. Paul, Minn., $47,935.

ST. LOUIS, MO.—M. G. Clymer has sold, through the Mercantile Trust Co., Eighth and Locust Sts., a lot fronting 100 ft. on the north side of McPherson Ave. and 185 ft. deep, located just east of Union Boulevard, to the Sam Weil Realty Co., Sam Weil, Pres. A group of apartments, six stories in height, and containing suites of three, four and five rooms, will be erected on the site. The building will be modeled after the apartments in the East and will be equipped with elevators. It is estimated that the building will cost $100,000.

HOT SPRINGS, ARK.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 1, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring), of an extension to the U. S. post-office at Hot Springs.

EL PASO, TEX.—Frost & Frost, Archs., P. O. Box 27, El Paso, are completing plans for the bank building for the American National Bank of El Paso. It will have eight stories. Estimated cost, $100,000.

OKLAHOMA CITY, OKLA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Oklahoma City, Okla., to M. J. GILL CONSTRUCTION CO., of Ardmore, Okla., at $209,196. Time, April 30, 1911. A complete list of bids was given on Dec. 23.

*DENVER, COLO.—Bids are asked until 3 p. m., Feb. 17, by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for the construction, including plumbing and drainage, of the U. S. post-office and court-house at Denver, Colo.

SEATTLE, WASH.—Plans have been completed and contract will be let soon for the erection of a 6-story and basement apartment building to be erected in the Broadway District at a cost of $100,000 for the Queen Bay Building Co., O. E. Olson, Pres.

VANCOUVER, WASH.—Bids are asked until 11 a. m., Jan. 27, by the Constructing Q. M., for the construction of an artillery stable of brick, with slate roof, for 138 animals at Vancouver Barracks, Wash.

PORTLAND, ORE.—Marshall-Wells Hardware Co., Fifth and Pine Sts., will start erecting on Feb. 1 a warehouse, to be located between 14th and 15th Sts., on Johnson St., at a cost of $1,000,000. Jay Smith is Local Mgr. of the company.

LOS ANGELES, CAL.—H. Alban Reeves, Arch., Chamber of Commerce Bldg., Los Angeles, Cal., and Mayberry & Parker, Engrs., Pacific Electric Bldg., have prepared plans for a 6-story and basement apartment hotel, 117 × 70 ft., to be erected on Pico and Hill Sts., Los Angeles, for Mrs. E. G. Reighard. Mail chutes, elevators, vacuum cleaning system, steam heating, will be installed.

Parkinson & Bergstrom, Archs., Security Bldg., Los Angeles, have been selected by

the Los Angeles Athletic Club as architects for the club building to be erected on Seventh and Olive Sts. The maximum amount to be expended on building is $650,000. The full amount is available and a 10-story structure, 148 × 155 ft. is being planned.

LOS ANGELES, CAL.—The Knights of Columbus of Los Angeles are contemplating the erection of a $100,000 club house, to be erected at Pico and Alvards Sts. Plans for the building have been made by A. W. Pierce.

A 9-story concrete addition will be added to the Hotel Hayward, at the corner of Spring and Sixth Sts., Los Angeles. Dr. Henderson Hayward is owner. Hunt, Eager & Burns, Laughlin Bldg., are Archs. Mayberry & Parker, Pacific Electric Bldg., are Engrs. Estimated cost, $100,000.

The SAN FRANCISCO CORNICE CO., Ninth and Bryant Sts., San Francisco, Cal., has contract for installing the metal trim in the 8-story reinforced concrete building, being erected for Thomas Higgins at Second and Main Sts., Los Angeles, Cal. Cost, $70,000. A. J. Haley is Arch., Citizens National Bank Bldg. A. C. Martin, H. W. Hellman Bldg., Engr., will soon ask for estimates for the mechanical equipment for the building.

LOS ANGELES, CAL.—J. C. Austin, Wright & Callender Bldg., Los Angeles, has been commissioned to prepare plans for a building to be erected in the southwest portion of the city, for St. Mary's Academy. Cost, $100,000. The building will be fireproof.

Plans for the Historical Building to be erected in Agricultural Park by Los Angeles County at a cost of approximately $150,000, are nearing completion in the offices of Hudson & Munsell, Archs., Stimson Bldg., and it is expected that construction will be begun in about 2½ months. The architectural design for the front typifies the Spanish renaissance, and the plan for the building, as a whole shows strength and simplicity. The central portion of the building will be a rotunda, and adjoining this will be three wings, one on the right and another on the left, each 50 ft. wide and 100 ft. long, and one in the rear, 50 × 75 ft. The rotunda and right and left wings will have 10-ft. balconies, with windows beneath. The rotunda will be 70 ft. in diameter, and will have a glass dome 80 ft. high. The ceiling will be of glass and wainscot of marble. The wings will have glass ceilings. There will be a basement which will contain lavatories and work and storage rooms. The construction will be steel frame, brick and concrete, with exterior finish of red brick and terra cotta. The floors will be of reinforced concrete, overlaid with marble mosaic tile. The roof will be of mission style and will be constructed of copper and ribbed glass. The extreme dimensions will be 176 × 310 ft.

LOS ANGELES, CAL.—The design has been finally approved for a bank and office building to be erected by the Los Angeles Savings & Trust Co. at the corner of Sixth and Spring Sts. Parkinson & Bergstrom, Security Bldg., are Archs. The building will cost $500,000 and will have eleven stories. The LLEWELLYN IRON WORKS has contract for steel to be used.

A 12-story steel and concrete building may replace present brick structure at the corner of Spring and Third Sts., if plans of W. B. S. Sullivan, of London, England, now in Los Angeles, are carried out. The proposed new building will cost $750,000.

Negotiations have been completed for the transfer, for $222,500, of the property at the southwest corner of Broadway and Second St. to a syndicate headed by C. Wesley Roberts, which will erect a 10-story office building to cost $300,000. The building will have a frontage of 50 ft. on Broadway and 110 ft. on Second St. It will contain about 300 offices, with banking rooms on the first floor. It will be of reinforced concrete and of the best class in every particular. The exact date for beginning the erection of the building has not been determined.

SACRAMENTO, CAL.—The contract for the People's Savings Bank building, which will occupy the southwest corner of Eighth and J Sts., has been awarded, and it is likely that on March 1 will begin commencement of work preliminary to its erection. Contract was let to the THOMPSON-STARRETT CO., Bush and Kearney Sts., San Francisco. It will cost $200,000.

SAN FRANCISCO, CAL.—At a meeting of the Board of Public Works, held on Dec. 24, a contract was awarded to LANG & BERGSTROM, Investors Bldg., for the construction of a house for Chemical Engine No. 12, at a cost of $22,618. Contracts were also awarded for the construction of the Holly Park School, as follows: HANSBROUGH BROS., 1028 Market St., general construction, $48,513; EDWARD GRUNDY, plumbing, $4,321; NATIONAL ELECTRIC CO., electrical work, $1,432; AMERICAN AIR CLEANING CO., vacuum cleaning, $674.

A building is planned by the William Ede Co., and will be erected in the south side of Market St., between Sixth and Seventh Sts. It will be a store and loft building. The cost is estimated at about $60,000. According to the plans prepared by William Knowles, Arch., Mutual Bank Bldg., the building will be of Class C construction, six stories high, to cover a ground area of 50 × 165 ft., running through to Stevenson St.

A 5-story and basement family hotel will be erected at the northwest corner of Hyde and Bush Sts. at a cost of $70,000 for J. B. Treadwell of the J. B. Treadwell Co., Inc., of Los Angeles. The plans for this structure have been furnished by T. Patterson Ross, Bush and Laguna Sts., and A. W. Burgren. The exterior will be of pressed brick. The structure will contain 110 rooms and suites, with tiled bathrooms for each. A reception hall in Italian style, flanked by marble columns, will be a feature of the construction.

SAN FRANCISCO, CAL.—We are officially advised that plans have been completed for the proposed Olympic Club buildings in the Post St. lot owned by the club. Paff & Baur, 1166 Ellis St., are Archs. The building will be five stories high and will be 170 × 137.6 ft. It will have a granite face and granite columns. The first three stories will be of sandstone and the upper two stories will be of pressed brick. The rear of the structure will be occupied entirely by the gymnasium. The lower floor will be used exclusively for baths. Included in the bath part of the structure will be a salt water tank 140 ft. in length. The lower floor will be finished in marble and glazed tile. On the second floor the reception room, offices and directors' room are to be placed. The third floor will be devoted to the main dining room, a large lounging room and a billiard room. On the upper floors the space will be divided into living rooms for the members. There will be a running track on the roof, a solarium and a roof garden. The quarters will be ready for occupation the first day of 1911. The building will cost $600,000; equipment, $50,000. Contracts will be let this month.

BOISE, IDAHO.—The Boise & Interurban Ry. Co., Boise, expects to begin work next year on a passenger and freight station at Seventh and Bannock Sts. It will cover an area of 122 × 100 ft., will be two stories high and will be constructed of reinforced concrete, brick and stone. It is the intention to add two stories to the building later. H. E. Dalton, Boise, is Gen. Mgr. and Pur. Agent.

MONTREAL, QUE.—In order to provide increased terminal facilities for its expanding business, in the east end of the city, the Grand Trunk Ry. System has, through the Lachine, Jacques Cartier & Maissonneuve Ry. Co. (a subsidary company) made application to the City Council, through the Road Department, for permission to extend the line of the L., J. C. & M. Ry., through the north and east end of the city, to a terminal station which will, for the present, be used primarily for freight business. This will be located on St. Catherine St., between Harbor and Frontenac Sts., the new line running northwesterly, crossing Harbor and Ontario Sts., and thence to a connection with its present line at Jacques Cartier Union Junction, where it will cross the line of the Canadian Pacific Ry. The Grand Trunk has acquired a portion of the land required for its terminals, and is making application to the city for the closing of the ends of the following three streets, between Frontenac and Harbor Sts.: Demontigny, Lafontaine and Logan Sts. H. G. Kelley, Montreal, is Ch. Engr., G. T. R.

The St. Lawrence Hall, a hotel, will be pulled down soon, to be replaced by a 10-story building to be erected by the Dominion Express Co. for a head office. According to announcement by Canadian Pacific Ry. officials, the work of demolishing the hotel will be started about March 1.

BRANDON, MAN.—A 100-room hotel will be erected next season at Brandon, by the Canadian Northern Ry. Co. M. H. McLeod, Winnipeg, is Gen. Mgr.

WINNIPEG, MAN.—It is reported that the Marshall Field Co., of Chicago, has purchased a site in Winnipeg on Portage Ave. for erection of a department store. The price for the land is stated to have been $950,000.

VICTORIA, B. C.—Bids have been called for a 6-story annex to the Empress Hotel in Victoria, B. C., owned by the Canadian Pacific Ry. Co. The new wing will cost $150,000 and will have 68 additional rooms. It will be completed next fall. Hayter Reed is Mgr. in Chief of Hotels, Montreal, Que.

WATER-SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

GUILFORD, ME.—We are officially advised that the Guilford Water Co., Guilford, has been organized and will construct a water system at Guilford next spring, consisting of about seven miles of 6, 8 and 10-in. c.-i. water pipe; 500,000-gallon reservoir and concrete dam. The system has been designed and will be constructed by Charles N. Taylor, Contracting Engr., Wellesley, Mass. Bids for pipe f. o. b. Guilford were received as follows on Dec. 29: (a) 6-in., (b) 8-in., (c) 10-in.: M. J. Drummond & Co., (a) $30.40, (b) $29.90, (c) $29.90; Warren Foundry & Machinery Co., (a) $31.50, (b) $31.50, (c) 31.50; R. D. Wood & Co., (a) 29; (b) $29, (c) $29; via water, (a) $27.50, (b) $27.50, (c) $27.50; John Fox & Co., (a) $28.60, (b) 28.60, (c) $28.60; Donaldson Iron Co., (a) $29.40, (b) $28.96, (c) $28.96; U. S. Cast Iron Pipe & Foundry Co., (a) $29.70, (b) $29.70, (c) $29.70; CHARLES MILLAR & SON CO., 127 Genesee St., Utica, N. Y., (a) 27.50, (b) $27.50, (c) $27.50 (awarded contract); McWane Pipe Works, (a) $29.25, (b) $29.25, (c) $29.

CHICOPEE, MASS.—We are officially advised that the Water Commissioners on Dec. 31 awarded contract for the pump for the Fairview water-works to the HANNON & FENTON CO. C. E. Bogardus is Supt.

*NEW YORK, N. Y.—Bids will be received by the Board of Water Supply until 11 a. m., Jan. 25, for Contract 54, for the construction of a portion of the Yonkers siphon, a deep pressure tunnel 16 ft. 7 ins. inside diameter, and about two miles long, reached through three shafts from 100 to 150 ft. in depth, and a connection chamber with appurtenant works. The work is located in the city of Yonkers, about 1½ miles northwest of the Mt. Vernon station on the Harlem division of the New York Central & Hudson River R. R. T. Waldo Smith is Ch. Engr.

Bids were opened on Dec. 31 by the Department of Water Supply, Gas and Electricity for furnishing, delivering and laying water mains in Southern Boulevard and in 133d St.: L. D. Gregory, 342 East 125th St., New York, $101,829; Soracci Contracting Co., $108,787; Wilton Construction Co., $125,315; H. E. Fox, 81 East 125th St., New York, $122,286; O'Leary & Flanagan, 245 East 202d St., New York, $118,715; Melrose Construction Co., $108,202.

NEW YORK, N. Y.—Bids were received as follows on Dec. 31 by the Department of Water Supply, Gas and Electricity for furnishing, delivering and laying water mains and appurtenances and removing existing water mains in Bushwick, Lewis, Lexington, Reid and Stuyvesant Ave., and in Beaver St., Boro. Brooklyn: H. E. Fox, 81 East 125th St., New York, $116,283; Deminick Bonacci, $122,391; J. A. Haggerty, $133,099; James Kelly, 41 Park Row, New York, $133,856; Robert Carter & Co., $123,073; Newman & Carey, $123,810; J. H. Holmes, $116,848; Empire City Contracting Co., $119,829.

NEW YORK, N. Y.—A list of itemized prices for Contracts 53 and 9, received on Dec. 16 and Dec. 21, respectively, by the Board of Water Supply are given in this issue under Contract Prices, page 6.

NEW BRIGHTON (S. I.), N. Y.—Bids will be received by the Department of Water Supply, Gas and Electricity, New York, until Jan. 12, readvertisement, for furnishing, delivering and laying water mains and appurtenances and removing existing water mains and appurtenances in Westervelt, Beechwood, Bismarck, Madison, Monroe, Tompkins, Hamilton, Second, Third, Fourth, Fifth, Sixth, Seventh, Crescent and St. Paul's Aves.; Jersey, Henry, Belmont, Church, Nicholas, Vine, Fifth and Wall Sts.; Carroll, St. Marks, Egmont, Holland and Fort Places; Richmond Road, Daniel Low Terrace, Daniel Low Circle and Richmond Turnpike.

KEESVILLE, N. Y.—It is proposed to construct water-works here. Estimated cost, $20,000. Contract will be let in about four months. W. G. Stone, of Utica is Engr.

ATLANTIC CITY, N. J.—The ATLANTIC CONSTRUCTION CO. has been awarded contract for the construction of a concrete tank at the water-works, to be used as a reservoir.

PITTSBURG, PA.—See item under Streets and Roads.

CATASAUQUA, PA.—Contract was awarded on Dec. 29 by the borough to GEORGE H. HARDNER, of Allentown, Pa., for the construction of the municipal water system here.

BALTIMORE, MD.—See item under Streets and Roads.

BALTIMORE, MD.—The Board of Awards on Dec. 29 awarded contract to the U. S. CAST IRON PIPE & FOUNDRY CO., 71 Broadway, New York, for c.-i. pipe and fittings for the Water Department, at $55,170. B. T. Fendall is City Engr.

WASHINGTON, D. C.—We are officially advised that on Dec. 23, the District Commissioners awarded contract to the THOMSON METER CO., 100 Bridge St., Brooklyn, N. Y., for 1,000 ⅝-in. Lambert meters, with the privilege of increasing the order 100% should the department so desire.

KIMBALL, W. VA.—The city is to have a water-works and electric light plant to cost $100,000, exclusive of site. The contractor, L. KAUFMAN, Northfolk, W. Va., will begin at once the erection of a power-house and other buildings. J. S. Shaw, Algoma, W. Va., has nearly completed surveys.

FLORENCE, S. C.—The citizens on Dec. 21 voted to issue $30,000 of bonds for water-works extensions.

LA FAYETTE, GA.—See item under Light and Power Plants.

LAKE PARK, GA.—The city is considering issuing bonds for the construction of water-works.

CUTHBERT, GA.—The city has awarded contracts as follows for improvement of the water and light plants: F. J. WHITE, Geneva, Ala., artesian wells; R. D. COLE MFG. CO., Newnan, Ga., boilers; FORT WAYNE ELECTRIC CO., Fort Wayne, Ind., electric generators; FILER & STOWELL CO., Milwaukee, Wis., engines; PLATT IRON WORKS, Dayton, Ohio, air compressors; J. B. McCrary & Co., Empire Bldg., Atlanta, Ga., are Engrs. D. A. McPherson is Mayor.

GISSIMMEE, FLA.—The city has awarded contract to XAVIER A. KRAMER, Magnolia, Miss., for the construction of water-works.

EAST CLEVELAND, OHIO.—Bids are asked until noon, Jan. 8, by the Board of Trustees of Public Affairs for furnishing labor and material for laying a 6-in. water pipe, together with hydrants and other appliances in a portion of Pitney St. Henry Wagner is Clk.

EUCLID, OHIO.—The Village Council on Dec. 27 awarded contract for laying two water mains, one to be a high pressure main and the other low pressure to the WATER-WORKS CONSTRUCTION CO., at $34,000. Work will commence at once. The plan is to lay the water mains from East Cleveland through Euclid Ave. and across to Euclid village.

UPLAND, IND.—Se item under Light and Power Plants.

PONTIAC, MICH.—The Board of Public Works has awarded contract for 1,117 tons of c.-i. water pipe to the U. S. CAST IRON PIPE & FOUNDRY CO., 217 LaSalle St., Chicago, at the following prices per ton: 4-in. pipe, $26; all sizes over 4-in., $25.50. The pipe is to be used for the water extensions.

QUINCY, ILL.—Bids will probably be called for this month for a high duty pump of 6,000,000 gallons capacity in 24 hours. Daniel W. Mead is Consulting Engr., Madison, Wis.

DODGEVILLE, WIS.—We are officially advised that the date for receiving bids for furnishing and erecting either a cypress or steel tank 22 ft. in diameter and 24 ft. high has been extended from Jan. 4 to Jan. 11. W. G Kirchoffer, 31 Vroom Bldg., Madison, Wis., is Engr.

MARION, KAN.—We are officially advised that contract for constructing the proposed water-works and electric light plant has been awarded to the Squire Electric Co., 614 Wyandotte St., Kansas City, Mo., at $[illegible], from plans of Burns & McDonnell, Merritt Bldg., of Kansas City.

WILSON, KAN.—The city has decided to construct water-works here. Estimated cost, about $45,000. N. Coover is City Clk.

WAKONDA, S. DAK.—The citizens on Dec. 21 voted to construct a water-works system. W. O. Knight is Town Clk.

MIDLAND, TEX.—Bids are asked by the city until Feb. 15 for the construction of water-works. O'Neill Engineering Co., Dallas, Tex., are Engrs. Estimated cost, $[illegible].

RALSTON, OKLA.—Bids are asked by the city until Jan. 17 for the construction of water-works and electric-light plant, including a well, building, triplex power pumps, alternating-current generator, oil engine, steel tank and tower, poles, wire, c.-i. pipe, etc.; M. A. Earl & Co., of Muskogee, Okla., are Engrs. T. E. Bryant is City Clk. Bonds for $25,000 have been voted.

ARDMORE, OKLA.—Bids are asked until noon, Feb. 1, by the Mayor for the construction of sedimentation basins and filtration plant, and extension of the present water main at the city lake. G. H. Bruce is City Clk.

DENVER, COLO.—Plans for the irrigation of 20,000 acres of land in Arapahoe and Elbert Counties, within 20 miles of here, have been filed with the State Engineer by the Kiowa Valley Reservoir & Irrigation Co. Lee A. Reynolds, C. D. Griffith and H. C. Covey are interested. Estimated cost, $500,000.

FREEWATER, ORE.—The citizens have voted to construct a water-works system. Estimated cost, $16,000. G. P. Sanderson is City Recdr.

VALLEJO, CAL.—Bids will be received until Jan. 8 by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for furnishing at the navy yard, Mare Island, a vertical triplex fresh water pump.

LOS ANGELES, CAL.—The following bids were received on Dec. 20 by the Board of Public Works for constructing two steel siphons for the Owen's River aqueduct: Lacy Mfg. Co., $22,315; Baker Iron Works, $25,950; Llewellyn Iron Works, $28,000, all of Los Angeles.

ESCONDIDO, CAL.—The Mutual Water Co., of Escondido, will bore 1,800 ft. of water tunnel and also will construct a cement tile pipe line 600 ft. in length. The tunnel work will be done by day work and pipe line let by private contract.

SAN DIMAS, CAL.—The San Dimas Irrigation Co., of San Dimas, is installing a domestic water system at Charter Oak; 2,000 ft. of water pipe is being laid; 32,000 ft. of lumber required to cver the reservoir will be furnished by the SAN DIMAS LUMBER CO. J. A. KREITER of San Dimas is contractor for this part of the work.

CALEXICO, CAL.—The city has voted $30,000 of bonds for a municipal water system. The Board of Trustees intend to construct three reservoirs of concrete and cement; one to hold at least 50,000 gallons; two settling basins and an air pressure tank will also be installed. All water mains will be laid in alleys instead of in the city street. The system involves the laying of 30,000 ft. of pipe. Estimated cost, $12,[illegible]. Noted on Dec. 23.

FORT MASON (San Francisco post-office), CAL.—Bids are asked until 11 a. m., Jan. 21, by Maj. George McK. Williamson, Constructing Q. M., U. S. A., Fort Mason, for constructing a pumping station, smokestack, boilers, pumps, reservoir, flume and pipe at Presidio of San Francisco.

PHOENIX, ARIZ.—The Secretary of the Interior has awarded contract to the FULTON ENGINE WORKS, of Los Angeles, Cal., for furnishing tunnel linings in connection with the Roosevelt dam, Salt River project, Arizona, at $2,675.

VERNAL, UTAH.—Gray & Grash, of Salt Lake City, are preparing plans for water-works. Estimated cost, about $12,000. B. P. Kelly is City Recdr.

BUHL, IDAHO.—The citizens have voted to issue $25,000 of bonds for the purchase of the water-works.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

PROVIDENCE, R. I.—The Board of Contract and Supply has awarded contracts for sewer pipe to WILLIAM A. HARRIS, Jr., and C. M. KELLY. Estimated cost, $6,097.

ANSONIA, CONN.—We are officially advised that plans are being prepared for the construction of a sewerage system to embrace the entire city. At first the outfall sewer in Spring will be extended about 1,200 ft. This is 45-in. diameter, brick. From then work will continue steadily during the summer. T. B. Clark is City Engr.

NEW YORK, N. Y.—Bids were received as follows on Dec. 30 by the Department of Parks for the construction of a brick drain in Van Cortlandt Park: W. J. Brennan, $87,382; Rodgers & Haggerty, $91,802; Henry E. Fox, $86,610; Marrone & Gasperini, $95,335; D. Bonnacci, $94,277; Louis Wechsler, $94,690; Joseph Moore, $97,421; Thomas Crimmins, $102,580; Briggs & McLaughlin, $89,431; Ryan & Reilley, $88,215; C. W. Collins, $91,003; Hanover Contracting Co., $86,272; McHarg-Barton Co., 165 Broadway, New York, $84,193.

BUFFALO, N. Y.—Bids will be received until 11 a. m., Jan. 11, by Francis G. Ward, Comr. Pub. Wks., for constructing the sewers as follows: 20, 18, 15, 12 and 10-in. in Roosevelt St., 18-in. in Chauncey St., 15 and 10-in. in Kensington Ave. and Deerfield Ave.

SYRACUSE, N. Y.—Contract will be let in the spring for the proposed Harbor Brook improvement and intercepting sewer. Harry Hamlin is Secy. Intercepting Sewer Board.

NORTH PELHAM (Pelham post-office), N. Y.—Bids are asked until 8 p. m., Jan. 18, by the Board of Trustees for the construction of a sewer system complete. Harold B. Roberts is Village Engr.

JERSEY CITY, N. J.—Bids are asked by the Board of Street and Water Commissioners until 2 p. m., Jan. 10, for the construction of a sewer in Sackett St. George T. Dixon is Clk.

NEW GIRT, N. J.—Bids were received at the office of C. Edward Murray, Quartermaster General, State Capitol, Trenton, on Dec. 29, for furnishing material and installing a sewage disposal system at the State Camp grounds here. B. F. SWEETEN & SON, of Camden, N. J., have been awarded contract, at $1,337.

PITTSBURG, PA.—See item under Streets and Roads.

SCRANTON, PA.—The following contracts have been awarded by the City Council for sewer work: O'BOYLE BROS., at $27,649, for the construction of a sewer in Section 5 in the First Ward; F. DeANDREA, at $9,519, for the construction of a sewer in Section K, including Third St., and territory adjacent; F. DeANDREA, at $11,795, for the construction of a sewer in Section M in Williams and Blakely Sts.

MOUNT OLIVER, PA.—Bids were received as follows on Dec. 23 by the borough for the construction of about eleven miles of sewers: James F. Ferry, Croton, $68,471; M. O'Herron & Co., South First and McKean Sts., $64,181; Mellen & Daly, 21st and Sidney Sts., Pittsburg, $67,190; OTT BROS., 414 Washington Ave., Pittsburg, $62,289 (awarded contract); Thomas Cronin Co., 17th and Muriel Sts., Pittsburg, $64,527; J. B. Sheets & Co., Kelly St., Pittsburg, $66,279. Engineer's estimate, $61,639. Time of completion: nine months. William McClurg is Boro. Engr.

*PHILADELPHIA, PA.—See item under Bridges.

BALTIMORE, MD.—See item under Streets and Roads.

LAURINBURG, N. C.—This city will extend its sewers about 1,200 ft. and water mains 1,000 ft. F. F. Wetmore, of Lumberton, is Engr.

FLORENCE, S. C.—The citizens voted on Dec. 21 to issue $70,000 of bonds for the construction of a sewerage system.

NEWBERRY, S. C.—The city has awarded contract to BOWE & PAGE, of Augusta, Ga., for extending the sewer system, including sewer tanks, filter beds, at about $35,000.

QUINCY, FLA.—Bids are asked by the city until Jan. 12 for the construction of a sewer system, including 7.5 miles of piping, 70 manholes, 20 flushtanks and one septic tank. George H. Palmer is City Engr.

MONTGOMERY, ALA.—See item under Streets and Roads.

MONTGOMERY, ALA.—Bids are asked until Jan. 17 by the city for the construction of 6,000 ft. of 12-in. sanitary sewer from Highland Park to Southern outfall sewer in South Decatur St.

*LOUISVILLE, KY.—C. T. McCracken & Co., of Columbus, Ohio, were lowest bidders at $30,000 on Dec. 24 for construction of the Jane St. sewer, 3,456 ft. long. J. B. F. Breed is Ch. Engr. Sewerage Comn.

SEBRING, OHIO.—Eight bids were received on Dec. 27 for building the sewage disposal plant here. The lowest was that of JOHN SKEELS, of Canton, Ohio, and contract was awarded to him, at $11,059.

COLLINSVILLE, ILL.—Bids are asked until 7 p. m., Jan. 15, by the Board of Local Improvements, for the construction of the improvement of Sanitary Sewer District No. 2, including septic tank, and the following approximate quantities: 10,727 lin. ft. of 8-in., 4,017 lin. ft. of 10-in., 1,379 lin. ft. of 12-in. vitrified pipe sewer, 120 lin. ft. of 12-in. standard c.-i. pipe sewer, 36 brick manholes, 16 flush tanks, ten vitrified pipe lampholes, 210 cu. yds. of concrete.

CORLISS, WIS.—The Chield Engineering Co., of Chicago, Ill., has made survey for a sewerage system and will prepare plans and specifications. A. G. Cady is Village Clk.

STOUGHTON, WIS.—J. T. Hard, City Engr., is completing plans for the construction of a sewer system. Estimated cost, $80,000.

MOUNT PLEASANT, IOWA.—The BURLINGTON CONSTRUCTION CO., of Burlington, has secured contract for sewer work at 60 cts. per lin. ft. for main sewer and 48 cts. per lin. ft. for house-connections.

BOONE, IOWA.—We are officially advised that the City Council has ordered the construction of a system of sanitary sewers in the Fifth Ward, which will comprise approximately 9½ miles of from 8 to 15-in. of vitrified sewer pipe. Bids will be received by the City Clerk until Jan. 26. Plans and specifications for the work are on file in the offices of the City Clerk, and Karl C. Kastberg, City Engr.

FORT DODGE, IOWA.—Bids are asked until 5 p. m., Jan. 10, by the City Council for the construction of a storm sewer. W. L. Tong is City Clk.

ARKANSAS CITY, KAN.—E. M. EBY, of Wellington, has secured contract for 3½ miles sewer as follows: 6-in. 68 cts., 8-in. 90 cts., 10-in. $1, 15-in., $1.30; manholes, each, $40; lamp holes, each, $10; flush tanks, each, $75; for each additional foot of manhole over 6-ft., $3. ROBSON & LIVINGSTON, of Kansas City, secured contract for a 900-ft. lateral 6-in. pipe at 65 cts.; manholes, each, $35; lamp holes, $5; flush tank, $75.

LINCOLN, NEB.—C. D. CAMPBELL, of Lincoln, has been awarded contract for constructing the B. C. sewers at $10,226, and 27th St. sewer at $3,001.

JOPLIN, MO.—Contract for the construction of the West Joplin sanitary sewer was let by the City Council on Dec. 28 to HENRY ROST, of Joplin, at $36,852. J. B. Hodgdon is City Engr.

SEDALIA, MO.—Plans and specifications are being prepared by Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., for the construction of a sewage purification plant here.

OKLAHOMA CITY, OKLA.—Bids are asked by the city until Jan. 10 for the construction of lateral sewers in Putnam Heights, Military Park, Epworth View, etc. Bob Parman is City Clk.

ANADARKO, OKLA.—The City Council on Dec. 21 awarded contract for the construction of storm and sanitary sewers to the J. F. HILL CO., at $22,963. Other bidders were: Helman Construction Co., St. Louis, Mo., $26,149; H. B. Derr Co., $28,701.

ELLENSBURG, WASH.—The sewer system in the southern section of the city was enlarged. Estimated cost, $10,000.

WENATCHEE, WASH.—Bids will be received in February or March for the construction of the proposed sewer system. Estimated cost, about $230,000. C. C. Ward is City Engr.

SAN FRANCISCO, CAL.—Contract for constructing sewers in 31st Ave., Clement and 33d Sts., has been awarded to WILLIAMS & BELSER, Mechanics Savings Bank Bldg., at about $9,639. Bids were opened by the Board of Public Works. Robert J. Loughery is Secy.

The KEYSTONE CONSTRUCTION CO., 417 Montgomery St., has been awarded contract by the Board of Public Works for constructing Section B of the North Point main sewer at $64,819. Marsden Manson is City Engr.

EAST SAN JOSE, CAL.—The Town Trustees on Dec. 21 accepted plans and specifications for the construction of the proposed sewer system.

COLTON, CAL.—The City Trustees have directed W. L. Brown, City Engr., to determine street grades and prepare preliminary plans for a sewer system.

LONG BEACH, CAL.—The City Engineer is preparing plans for a new sewer system, to care for the entire city, with a new outfall sufficiently large to provide for several years' growth.

TUCSON, ARIZ.—The Board of Trustees has authorized the construction of a lateral sewer in Simpson and in Cushing Sts. and along the entire length of South Meyer St. W. J. Lindenfield is City Clk.

DUNNVILLE, ONT.—Contract for constructing about 18,000 ft. of tile sewers, contractor to furnish all materials, has been awarded to the EXCELSIOR CONSTRUCTING & PAVING CO., LTD., Yonge Arcade, Toronto, at $15,073. Willis Chipman, 103 Bay St., Toronto, is Ch. Engr.

GARBAGE DISPOSAL.

(denotes that this work is advertised in Engineering News.)*

NEW YORK, N. Y.—Bids were received as follows on Dec. 31 by William H. Edwards, Comr. Street Cleaning, for the removal of snow and ice, Boro. Manhattan: Form I, W. J. Fitzgerald, 547 W. 45th St., removing, 60 cts.; piling, 10 cts.; Form II, 58 cts. and 8 cts.; Canavan Bros., 518 W. 56th St., 60 cts. and 14 cts. and 72 cts. and 14 cts.; William Bradley, 66th St. and North River, 46½ cts. and ½ ct., and 48 cts.; Thomas Crimmins, 444 E 69th St., 66 cts. and 18 cts., no bid on Form II.

The following bids were received for snow and ice removal on same date, Boro. Brooklyn: Form I, Newman & Holmes, Bayside, L. I., removing, 39 cts.; piling, 00; Form II, 37½ cts. and 10 cts.; Norton & Gorman, 303 Douglas St., Brooklyn, 18 cts. and 9 cts. and 33 cts. and 15 cts.; C. De Marco, 3 Rutherford Pl., New York, no bid on Form I, 45 cts. and 10 cts.; William Bradley, 66th St. and North River, 45 cts. and 0; 44 cts. and 0; Donlon Contracting Co., 46 cts. and 5 cts.; no bid on Form II.

Bids were received as follows for removal of snow and ice, Borough of The Bronx: Form I, Kane Contracting Co., 735 East 150th St., removing, 65 cts.; piling, Form II, 65 cts. and 45 cts.; C. De Marco, 3 Rutherford Pl., New York, 30 cts. and 12 cts., and 43 cts. and 12 cts.; William Bradley, 66th St. and North River, 45 cts. and 0; and 40 cts. and 0; Charles Schneider, 303 Douglast St., Brooklyn, 33 cts. and 8 cts., and 27 cts. and 8 cts.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

HARTFORD, CONN.—Plans for proposed state road work have been received at the office of the State Highway Commissioner as follows: From R. S. Hulbert, Engr., 9,700 lin. ft. on the Greenswood road in the town of Winchester; 2,300 lin. ft. from A. B. Hill, Engr., on the road from Beard's Corner to the Washington bridge in the town of Milford.

BUFFALO, N. Y.—Contracts for repaving five streets have been approved by the City Council. Main St., from the Erie tracks to the city line, has been let to the GERMAN ROCK ASPHALT & CEMENT CO., D. S. Morgan Bldg., at its bid of $22,380. Work will be begun as soon as the weather permits. The same company will repave Kehr St., from the north curb line of Genesee St. to Urban St., and Alwin St. The BARBER ASPHALT CO., 882 Ellicott Sq., will pave Hedley St., from Meech St. to Oak Grove Ave. To the L. H. GIPP CONTRACTING CO., D. S. Morgan Bldg., will be let the contract for repaving Royal Ave., from Tonawanda St. to Ontario St.

NEW YORK, N. Y.—Bids were received as follows on Dec. 29 by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating and repaving with asphalt pavement on a concrete foundation the roadway of Fifth Ave., between Atlantic Ave. and Union Road: Uvalde Asphalt Paving Co., 1 Broadway, New York, $14,252; Brooklyn Alcatras, 407 Hamilton Ave., Brooklyn, $11,114; Cranford Co., 53 Ninth St., Brooklyn, $14,512; Barber Asphalt Paving Co., 30 Church St., New York, $14,113. Also for regulating and repaving on granite pavement on a concrete foundation the roadway of Sixth Ave., from Union Road to Prospect Ave.: Daniel J. McCoy, $63,659; Newman & Carey, 215 Montague St., Brooklyn, $64,722; Richard L. Russell, $65,945; Atlanta Contracting Co., $63,505; John J. Guinan, Gravesend Ave., Brooklyn, $63,262; M. F. Hickey, informal; Norton & Gorman, $64,616.

The following bids were received on Dec. 29, by John F. Murray, Pres. Boro. of the Bronx, for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences on Bartholdi St., from White Plains Road to Bronxwood Ave.: Perille & Sheil, $22,716; Voorhees-Sullivan Co., Dorothea Pl., $24,826; L. J. Moran, $25,548; P. J. Duffy, Fourth Ave. and 138th St., $25,340; Wakefield Construction Co., 39 East 22d St., $21,760; J. E. Malatesta, 3169 Jerome Ave., The Bronx, $21,923; L. C. Rose, 737 East 180th St., $23,185. East 222d St., from Bronxwood Ave. to Carpenter Ave.: Voorhees-Sullivan Co., Dorothea Pl., $24,561; L. J. Moran, $23,257; P. J. Duffy, Fourth Ave. and 138th St., $25,986; Wakefield Construction Co., 39 East 222d St., $22,260; J. B. Malatesta, 3169 Jerome Ave., The Bronx, $23,388; L. C. Rose, 737 East 180th St., $22,072; John Farrell, $24,122. Also for repaving with asphalt blocks on a concrete foundation the roadway of Walker Ave. (West Farms Road), from Unionpoint Road to Westchester Ave.: Barber Asphalt Paving Co., 30 Church St., $113,918; Hastings Pavement Co., 25 Broad St., $115,283; Sicilian Asphalt Paving Co., $147,000.

GLOUCESTER CITY, N. J.—The City Council has awarded to P. A. STEWART CO. the contract for street improvements as follows: Brick paving, $19,645; macadamizing, $24,600, and amisite paving, at $11,975.

FLEMINGTON, N. J.—The contract for macadamizing one mile Ashbury-Ludlow Station road has been awarded to M. IRVING DEMAREST, of Sea Warren, N. J., for $6,823. Grant Davis, White House Station, N. J., is County Engr.

PITTSBURG, PA.—It is planned to make the following street improvements: Diamond St. is to be widened to a uniform width of 50 ft., from Smithfield St. to Gala Alley. The street is now 50 ft. wide below Smithfield St. Between Smithfield and Grant Sts. the street will be widened by taking 15 ft. off property on the south side of the street. It will only be necessary to take ten feet from property on the south side of the street between Grant St. and Gala Alley. Cherry Alley will be widened between Fifth and Sixth Aves. by taking a strip 30 ft. wide from the property abutting on the east side of the alley. This will give a thoroughfare 50 ft. wide. A 10-ft. strip is to be taken from property on the north side of Fifth Ave., from Grant St. to Ross St., so that this section of the street will be 60 ft. wide, the same as the portion of the street below Grant St. Oliver Ave., between Smithfield and Grant Sts., is to be made a 44-ft. street to correspond with the width of this thoroughfare below Smithfield St. The additional 24 ft. needed to make this improvement will be taken from the property on the north side of the street. The extension of Grant Boulevard from Seventh Ave. to Sixth Ave., is provided for. This is to be accomplished by taking a strip of private property, 60 ft. in width, from Seventh Ave. to the north terminus of Dante Alley, and widening Dante Alley from its north terminus to Sixth Ave. by taking a strip from property on the west side of the alley. The boulevard will then be 60 ft. wide from Seventh Ave. to Sixth Ave. Strawberry Alley will be widened from Liberty Ave. to the point of intersection of the alley and the proposed extension of Grant Boulevard. The alley will be made 40 ft. wide by taking a 20-ft. strip from property on the north side of the alley. South 18th St. is to be widened from Josephine St. to Arlington Ave. A roadway of a uniform width of 38 ft. will be provided. The lower end of the street will be 60 ft. wide from building line to building line, but at the upper end it will not be wider than 52 ft. The sidewalks at the upper end will not be as wide as those at the lower end. A number of ordinances making the following appropriations are before the City Councils: Reconstruction of Try St., sewer basin, $143,000; reconstruction of the Negley run basin, $207,000; new pumping machinery for water system, $550,000; purchase of water meters, $150,000; purchase of additional land for filtration plant, $400,000; repairs to pumping machinery, $100,000; removal of Hump, $600,000; raising streets in flood district, $400,000; improvement of West Carson St., Allegheny Ave. and Sedgwick St., $80,000. N. S. Sprague is City Engr.

BALTIMORE, MD.—Bids will be received until 11 a. m., Jan. 12, by the Board of Awards, care of the City Register, for the delivery of sand, gravel, cement and vitrified paving block, etc., for street work; also sewer and water-works materials for the City Engineer's Department for the year 1910. B. T. Fendall is City Engr.

NORFOLK, VA.—The Board of Control has accepted the bid of PERRY W. RUTH & CO. for laying curb and gutters in 19th St., between Omohundro and DeBree Aves., and paving Graydon Ave. and Blow St. The price for curbing and guttering is 70 cts. a ft., and for asphalt blocks, 38 cts. a sq. yd.

WINSTON-SALEM, N. C.—We are officially advised that the ATLANTIC BITULITHIC CO., has been awarded the contract for 6,700 sq. yds. of bitulithic pavement.

JACKSONVILLE, FLA.—We are officially informed that bids were received on Dec. 17 by F. J. Hyde, Chn. Bd. of Comrs. of Duval County, for grading, curbing and laying 2¼ miles of vitrified block or concrete pavement on the Beach Road, 15 ft. wide. Gail L. Barnard is County Engr. The contract has been let to the PENINSULAR ENGINEERING CO., of Jacksonville.

*BIRMINGHAM, ALA.—Bids will be received by Maury Nicholson, City Engr., until 11 a. m., Jan. 19, for vitrified brick, asphalt, bitulithic or granitoid paving.

MONTGOMERY, ALA.—The city will ask for bids soon in nine separate contracts for paving as follows: Street pavement, 31,235 sq. yds.; curb, 15,050 lin. ft.; gutters, 10,100 lin. ft.; reset curb, 1,735 lin. ft.; granite header stone, 710 lin. ft.; sidewalk paving, 64,000 sq. ft.; storm sewer pipe, 15-in., 3,085 ft., 18-in., 200 ft., 24-in., 575 ft., 12-in., 50 ft., 6-in., 500; inlets, 45; catch basins, 8; brick in walls, 65 M.; steps, 47; brick driveways, 265 sq. yds.

NEW ORLEANS, LA.—The Finance Committee has recommended for acceptance the bid of J. A. Craven & Co., 133 Tulane Ave., for repairing a portion of Julia St. with the present granite blocks, at $5,810; also the bid of Metropolitan Construction Co. for paving with sacre a portion of City Park St., at $207,724.

GLENDALE, OHIO.—Bids are asked until noon, Jan. 12, by the Board of County Commissioners for the following county work: Under Specification No. 904, for the improvement of Congress Ave., through the Village of Glendale, Springfield Township. Fred Dreihs is Clerk, Cincinnati.

TOLEDO, OHIO.—THOMAS J. KELLEY, 626 Avondale Ave., has secured the contract for paving with brick Avondale Ave., at about $10,000.

ISHPEMING, MICH.—Bids will be received by the Board of County Commissioners of the County of Marquette at its office in Ishpeming, until 5 p. m., Jan. 8, for the clearing, grubbing and grading of two miles of Witch Lake Road. The road begins on the north bank of the Michigamme River, thence northerly two miles toward Witch Lake. The clearing and grubbing will be for a width at any point equal to the cut or fill and gutters at that point. The grading will consist of approximately 6,900 cu. yds. of embankment and 6,724 yds. of earth excavation. Yardage computed by the method of average end areas. Work to be completed not later than July 15, 1910. W. H. Johnston is Chn.

ROCHELLE, ILL.—A. E. RUTLEDGE, of Rockford, Ill., has secured the contract for 30,000 sq. yds. of paving here, for about $53,340.

STREATOR, ILL.—The Board of Local Improvements has awarded the contract for paving North Park St. to JOHN S. BAUER, at $19,000.

ROCK ISLAND, ILL.—Bids were received on Dec. 18 for paving Ninth Ave., and the contract has been awarded to the CITY CONSTRUCTION CO., of Davenport, Iowa, at $14,643. The McCarthy Improvement Co., of Davenport, Iowa, bid $15,023.

PEORIA, ILL.—The Board of Local Improvement has decided to resurface a portion of Adams St. with asphalt, at a cost of $36,000. Clay Belsey is City Engr.

NAPIERVILLE, ILL.—Bids were received Dec. 20 by the Board of Local Improvements, Alvin H. Biedleman, Secy., for furnishing material, grading, draining, curbing and paving with brick on a concrete foundation a system of roadways from plans of W. S. Shields, Engr., 140 Dearborn St., Chicago, Ill., as follows: Logan & Giertz, Elgin, Ill., $61,786; Marquette Construction Co., Chicago, $66,884; A. E. Rutlidge, Rockford, Ill., $63,814; H. G. Goelitz, Oak Park, Ill., $66,150; John Hayes Sons Co., Naperville, $62,748; Blaine & Brown, Columbia City, Ind., $62,812; Illinois Cement Contracting Co., Springfield, Ill., $63,636; J. E. Sallisberg, Aurora, Ill., $64,600; Federal Improvement Co., Chicago, $65,748.

ST. PAUL, MINN.—The Board of County Commissioners, E. G. Krahmer, County Audr., will receive bids in the spring for macadamizing certain roads in Ramsey County. J. H. Armstrong, County Surv., is preparing plans now for the construction of the following macadam roads: Centreville and Barlow roads and Lexington Ave. The improvements will cost $50,000.

DULUTH, MINN.—Thomas F. McGilvray, the City Engr., has estimated the cost of paving various streets as follows: Garfield Ave., donnelite or tar macadam, $74,000; granitoid, $86,000, and sandstone blocks, $107,000; Lake Ave., sandstone block, $8,000; First Ave., with granitoid, $12,000, and Grand Ave., $51,000.

ARKANSAS CITY, KAN.—RUSHMORE & GOUTY, of Cherryvale, Kan., have secured contract for paving Chestnut Ave. with paving blocks on 6-in. concrete base and asphalt fill at $1.53 per sq. yd. and paving six alleys with paving blocks at $1.53 per sq. yd. J. H. Matthews is City Engr.

PINE BLUFF, ARK.—E. J. WETTERSON, Chicago, Ill., has secured the contract for paving 32,000 sq. yds. with creosoted wooden blocks on concrete foundation in District 26, for $85,000.

FORT WORTH, TEX.—The TEXAS BITULITHIC CO. has been awarded a contract to pave with bitulithic pavement on portions of Missouri and College Aves.

PAYALLUP, WASH.—We are officially advised that the WARREN CONSTRUCTION CO. has the contract for 19,000 sq. yds. of bitulithic pavement.

TACOMA, WASH.—The BARBER ASPHALT PAVING CO., Provident Bldg., Tacoma, has secured the contract for paving with asphalt a portion of Yakima Ave., for $98,671. Other bids received were as follows: Coast Contracting Co., $108,777; Keasal Construction Co., $114,660, and Lister Construction Co., $109,740.

PORTLAND, ORE.—The WARREN CONSTRUCTION CO. has secured the contract for 28,000 sq. yds. of bitulithic pavement in Portland.

MONROVIA, CAL.—The City Trustees have authorized the paving and curbing of Heliotrope Ave., from White Oak to Lemon Aves. L. E. Hotchkiss is City Clk.

FORT MASON (San Francisco post-office), CAL.—Bids are asked until 11 a. m., Jan. 6, by Major George McK. Williamson, Q. M., U. S. A., Fort Mason, for constructing a supply road to the pumping station, Presidio of San Francisco, Cal.

SANTA ANA, CAL.—The Board of Trustees of Santa Ana have ordered the paving and curbing of one block each on Hermonia and Claudina Sts. Bids for the paving of Center St., a distance of one mile will soon be called for. Cost of improvements, $40,000.

LOS ANGELES, CAL.—The FAIRCHILD-GILMORE-WILTON CO., Pacific Electric Bldg., Los Angeles, has been awarded contract to improve 24th, Hope and Pico Sts.

E. SCHELLING has been awarded a contract for improving Third St., from Fresno to Concord Sts., at $2 a lin. ft. for grading and graveling; 35 cts. a lin. ft. for cement curb; 17 cts. a sq. ft. for cement gutters.

GEORGE R. CURTIS, of Los Angeles, has been awarded contract for improving San Benito St., from Brooklyn Ave. to Michigan St., at 10 cts. per sq. ft. for regrading, gravel and oil; $2.95 per lin. ft. for grading and graveling; 35 cts. lin. ft. for cement curb; 30 cts. a sq. ft. for vitrified brick gutter; 14 cts. a sq. ft. for cement gutter; 12 cts. a sq. ft. for sidewalk; $1.25 a lin. ft. for crosswalks.

C. W. BRASHEAR, J. W. Hellman Bldg., Los Angeles, has the contract to construct 20,000 sq. ft. cement walks and 4,000 lin. ft. cement curb in McCarthy Co.'s Normandie Sq. Tract, Los Angeles. Work is to be done according to specifications and under the supervision of the City Engineer.

LONG BEACH, CAL.—Board of Public Works, Long Beach, has authorized the improvement of Elm Ave. by grading, paving and construction of cement curb. F. S. Craig is Secy.

WHITE & GASKELL, of Long Beach, has been awarded a contract, at $12,000, for improving Quito, Redondo, Obispo, Sobranto, Second Sts. and Park Boulevard. The work includes 206,000 sq. ft. of improvements.

INGLEWOOD, CAL.—The city of Inglewood has authorized the grading, oiling and curbing of Commercial St.; also construction of concrete culverts, sidewalks, etc. E. D. Morrison is City Clerk.

SANTA BARBARA, CAL.—The County Surveyor has been instructed to prepare plans and cross-sections for eleven miles of roads in the Goleta District.

SALT LAKE CITY, UTAH.—We are officially advised that the following bids were received on Dec. 24 for (a) Paving Extension No. 51, (b) Paving Extension No. 60: P. J. MORAN (a) $70,393, (b) $151,474 (awarded contract); McKay, Reed & Co. (a) $84,928, (b) $180,334; Stronge & Maguire (a) $86,042, (b) $188,121; Clark & Henery Construction Co. (a) $97,100, (b) $24,305. Time, (a) 240 days, (b) 300 days. California asphalt will be used in both cases. Geo. O. Chaney is City Engr.

MANUFACTURING PLANTS.

(denotes that this work is advertised in Engineering News.)*

FALL RIVER, MASS.—At a meeting of the directors of the Stafford Mills held Dec. 29, it was voted to increase the capacity of the No. 2 Mill by adding between 10,000 and 15,000 spindles. The L on the north side of the No. 2 Building will be extended 50 ft. and carried up from three to five stories. A Harris steam engine of 1,800 HP. is to be installed in the No. 2 Mill in place of the engine that has been in use.

BUFFALO, N. Y.—The Otis Elevator Co., G. H. Gardner, Mgr., Chicago and Granger Sts., will add to its plant at Girder St. and the New York Central R. R. Belt Line a 1-story machine shop, 300 × 300 ft., of structural steel and brick construction. Later a foundry building will be added.

BUFFALO, N. Y.—More than $100,000 is to be expended for additions to the plant of the Snow Steam Pump Works in this city. Bids are being received by the company, and it is expected that the work will be started shortly. The Snow Steam Pump Works has a plant on Roberts Ave. for the manufacture of pumps and engines. The addition to be built on the Buffalo plant will consist of one building about 200 ft. long and 80 ft. wide. This, with the increased tool equipment of the plant, will require an outlay of more than $100,000. Walter Laidlaw is Vice-Pres. and Gen. Mgr. The New York City offices of the company are 115 Broadway.

NEW YORK, N. Y.—We are officially advised that Maximilian Zipkes, 103 Park Ave., New York, Arch., is preparing plans for an 8-story loft and factory building to be built on the entire block front on DeKalb Ave., from Steuben to Grand Aves., Brooklyn, a plot 200 × 95 ft., by the DeKalb Realty Co., at a cost of $250,000. The plans will be ready for bids in about two weeks.

Ernest & Herman Levy, 72 Greene St., New York, ribbon manufacturers, are the buyers of a plot of about 34 lots in the Bronx, on Purdy and Odell Sts. and St. Raymond and Castle Hill Ave., adjoining the grounds of the Catholic Protectory. The firm will erect on the site a factory building which will cost about $150,000 and which will give employment to 800 persons.

ROME, N. Y.—We are officially advised that the Rome Soap Mfg. Co., George H. Brown, Secy., will build a 2 and 3-story factory, 140 × 160 ft. and 30 × 105 ft. The Houchin-Aiken Co. are Archs. and Engrs., 45 53d St., Brooklyn, N. Y. The contract has been let to the R. H. HAWES CONSTRUCTION CO., 500 Fifth Ave., New York, which desires sub-bids.

SYRACUSE, N. Y.—A shoe factory is to be built by John S. Gray, of the firm of H. H. Gray's Sons, manufacturers of women's shoes, with headquarters in the True Industrial Bldg. in North State St. Option has been secured by Mr. Gray upon a site north of both the Erie and Oswego canals. A fireproof building of four stories will be erected. It will be of steel or reinforced concrete with 50,000 ft. of floor space. It probably will be 175 × 70 ft. in dimensions.

NEWARK, N. J.—Plans are out for the new plant of the Lovell-McConnell Mfg. Co., 365 Market St., Newark, which is to be located at 194 Wright St. It will consist of a 2-story brick manufacturing building, of mill construction, to cover an area of 50 × 200 ft., a 1-story brick foundry building, 40 × 75 ft., and a brick structure to measure 25 × 67 ft., which will be occupied as a power-house, and excelsior storage room.

The work of razing the old building at 715 South 14th St. has been started to make way for a 3-story brick mill building for the West Newark Saw & Planing Mill Co., which is to be erected at a cost of about $15,000.

James S. Pigott, Arch., Union Bldg., Newark, has plans completed for the erection of the foundry plant of Edward Miller's Sons, at the foot of Berlin St.

PHILADELPHIA, PA.—The WALDEMAR MARTENSEN CO., of New York, has a contract to build a 2-story ice manufacturing plant, 121.8 × 222 ft., at the southeast corner of Ninth St. and Washington Ave. for the American Ice Co. A permit for the building has been obtained. The cost will be $69,000.

SHARON, PA.—It is reported that the U. S. Steel Corporation will appropriate money for enlarging its Sharon and South Sharon works the coming year. It is said that the sheet mill will be extended and ten additional mills erected, while ten more hot mills will be added to the tin plate mill. According to a statement of an official of the American Sheet & Tin Plate Co., the hot mills will be brought to Sharon from New Castle. One additional blast furnace and several open-hearth furnaces will be built at the North Works. The angle mill is not operated to full capacity because of a scarcity of steel, but with more open-hearth furnaces and another furnace stack the output will be considerably increased.

MOUNT AIRY, S. C.—The Surry Mfg. Co., of Mount Airy, N. C., has been incorporated with a capital stock of $100,000 by F. H. Chamberlin and R. W. Watson, of Mount Airy, and Robert A. Love, of Gastonia, N. C. This company will engage in cotton manufacturing, but has not announced details of its plans.

COLUMBIA, S. C.—The Glencoe Cotton Mills of Columbia, S. C., has been incorporated with a capital stock of $100,000 by T. Heber Wannamaker, of Orangeburg, S. C.; G. M. Berry, Cashier of the National Loan & Exchange Bank, Columbia, S. C., and associates. The Glencoe company plans the construction and equipment of a plant of 5,000 spindles and accompanying apparatus, for manufacturing cotton twine. It has secured a site for the mill and is now giving consideration to plans, specifications and other details. Mr. Wannamaker is planning the organization of another company, to build a cotton factory at Orangeburg later on.

GREAT FALLS, S. C.—The management of the Republic Cotton Mills has awarded contracts for all the machinery needed. The building contract has been awarded to T. C. THOMPSON & SONS, of Charlotte, N. C. The mill building will be 650 × 135 ft., having a 2-story room for the spinning department and a 1-story room for the weaving department. The textile equipment will include about 25,000 spindles and 1,000 looms, driven by 1,500 electrical HP., for the production of fine cotton cloth, the daily output to be probably 5,500 lbs. The initial electricity will be obtained from the local transmission of the Southern Power Co., with main office at Charlotte, N. C. In connection with this development, public company will create a compl city by the construction of wate sewerage system, electric lighting sidewalks, streets, tenement cottages eratives, dwellings for officials, about 500 operatives will be requi the mill, it is evident that an in city of from 1,800 to 2,000 inhabita be brought into existence by the enterprise. By next July the comp pects to have the mill buildings re the machinery, and this machinery place ready for manufacturing by ne tember. The engineering is in ch Joseph E. Sirrine, of Greenville, S. Republic Cotton Mills officials inclu following: Pres., Robert S. Mebane, Bellemont Cotton Mills, Graham, Vice-Pres., Thomas B. Fuller, of the Belt Mfg. Co., Durham, N. C.; Secy.-Hal B. Mebane, of Graham, N. C. is a report current that this plant first of a chain of mills to be built in and South Carolina to utilize ele transmitted from the various water developments of the Southern Power

(Continued on page 7.)

CONTRACT PRICES.

*DAM.—New York, N. Y.—Bids in were received as follows on Dec. 21 Board of Water Supply for Contract the construction of Kensico dam, a ha sonry dam across the valley of the Croton River, and appurtenant works, includi New Rye reservoir, New Rye dike, Bro tunnel, Bronx dike and Rye pipe-li work is located about three miles n of White Plains, near Valhalla statio JOHN C. RODGERS, 10 St. Nicho Pl., JAMES M. RODGERS, 303 West St. and JOHN J. HAGERTY, Flatbush, (awarded contract); (B) American Pipe & Construction Co., 112 North Broad St., Philadelphia, Pa.; (C) George W. Rogers Co., 29 Broadway, New York; (D) J. F. Cogan Co., Brewster, N. Y.:

	(A)	(B)	(C)	(D)
Stream-control & maintenance of work to supply Bronx conduit (lump sum).	$35,000.00	$50,000.00	$6,000.00	$20,000.00
230,000 cu. yds. excavation, Class A	.49	1.00	.70	1.25
650,000 cu. yds. excavation, Class B	.50	1.00	.90	.75
380,000 cu. yds. excavation, Class C	1.40	1.75	2.20	2.00
30,000 cu. yds. excavation, Class D	2.00	2.50	2.50	2.00
40,000 cu. yds rock excavated without blasting and from foundation of dam	1.50	.50	.75	1.00
650 lin. ft. tunnel excavation	24.00	75.00	45.00	25.00
40,000 sq. yds. special preparation of rock surfaces	.50	.50	.20	.25
30,000 cu. yds. refilling and embanking 4-in. layers	.50	.70	.60	.50
130,000 cu. yds. refilling and embanking, 6-in. layers	.65	.70	.55	.80
230,000 cu. yds. refilling and embanking, 12-in. layers	.20	.30	.20	.60
300,000 cu. yds. covering of reservoir bottom	.55	1.00	.65	.80
650,000 cu. yds. refilling and embanking, deposited in bulk	.25	.25	.40	.45
100,000 cu. yds. surface dressing and grassing	.50	.60	.50	.75
900,000 bbls. Portland cement	1.50	1.50	1.34	1.60
2,500 cu. yds. mass concrete, Class A	5.75	7.00	6.25	16.00
35,000 cu. yds. mass concrete, Class B	5.25	6.00	6.00	9.00
900,000 cu. yds. cyclopean masonry	2.65	2.50	3.00	3.10
40,000 sq. yds. facing, cyclopean masonry	.15	.50	.80	.50
60,000 cu. yds. concrete blocks	7.50	6.00	11.50	9.00
2,500 cu. yds. reinforced concrete, Class A	12.50	10.00	10.00	24.00
8,500 cu. yds. reinforced concrete, Class B	9.00	8.00	12.00	15.00
250 lin. ft. reinforced concrete ladders	3.00	3.00	2.50	5.00
400 sq. ft. vault lights	1.50	1.50	1.50	2.00
3,000 cu. yds. grout	5.00	7.00	5.00	2.50
20,000 sq. ft. finishing concrete by coating with grout, scrubbing, rubbing, etc.	.10	.10	.10	.10
75,000 sq. ft. tool dressing concrete	.20	.10	.30	.10
125,000 sq. ft. granolithic finish or mortar facing applied to concrete	.20	.10	.30	.10
2,000 cu. yds. dimension stones, Class A	24.54	17.00	35.00	20.00
1,200 cu. yds. dimension stones, Class B	23.05	15.00	35.00	20.00
11,500 cu. yds. dimension stones, Class C	23.05	12.00	30.00	20.00
15,000 sq. ft. fact dressing of quarry-faced work	.13	.15	.15	.25
80,000 sq. ft. face dressing of bull-pointed work	.25	.17	.30	.30
4,000 sq. ft. face dressing rough-pointed work, incl. roughing for carving	.25	.25	.40	.30
160,000 sq. ft. face dressing of fine-pointed work	.30	.38	.40	.45
150,000 sq. ft. face dressing of patent-hammered work, 4 cuts to the inch	.55	.40	.60	.55
1,000 sq. ft. face dressing of patent-hammered work, 6 or 8 cuts to the inch	1.00	.50	.60	.70
15,000 lin. ft. rounds not more than 3 ins. wide	.40	.40	.50	.70
10,000 lin. ft. members of moldings not more than 3 ins. wide	.50	.50	.50	.50
2,000 lin. ft. drips not more than 1 in. wide	.20	.25	.50	.40
1,000 lin. ft. chisel drafts not more than 3 ins. wide	.35	.25	.45	.40
50,000 sq. ft. beds and joints, ¼-in. wide	.23	.15	.40	.40
175,000 sq. ft. beds and joints larger than ¼-in	.18	.12	.30	.30
11,000 cu. yds. roughly-squared stone masonry	18.00	10.00	25.00	20.00
1,000 cu. yds. ashlar masonry	20.08	20.00	25.00	20.00
400 cu. yds. brick masonry, of common, hard-burned, clay bricks	10.00	15.00	15.00	15.00
200 cu. yds. brick masonry of hollow, porous, terra cotta blocks or bricks	10.00	20.00	15.00	15.00
13,000 cu. yds. dry rubble masonry and paving	2.50	3.50	2.50	3.00
580 cu. yds. rubble masonry and paving in mortar	4.00	4.00	3.00	4.25
15,000 cu. yds. riprap	1.50	3.00	1.50	2.00
3,000 lin. ft. drilling small holes in rock or masonry	.45	.50	.25	.50
350 tons straight bell-and-spigot, cast-iron pipes	60.00	60.00	75.00	50.00
70 tons iron pipe special castings	100.00	100.00	100.00	100.00
10 8-in. valves	40.00	25.00	50.00	50.00
5 12-in. valves	60.00	40.00	75.00	75.00
6 24-in. valves	300.00	150.00	350.00	300.00
2 gates and valves, Class A, for works of sanitation	40.00	20.00	50.00	50.00
30 gates and valves, Class B, for works of sanitation	25.00	10.00	30.00	20.00
30 gates, valves and cocks, Class C, for works of sanitation	20.00	5.00	15.00	2.00
11,000 lin. ft. riveted steel pipe	6.00	10.00	15.00	15.00
250,000 lbs. steel for reinforcing concrete arch bridge ribs	.04	.10	.10	.15
1,000,000 lbs. steel for reinforcing concrete, not included in Item 61	.03½	.03	.06	.06
400,000 lbs. miscellaneous cast iron, wrought iron and steel	.05	.08	.06	.07
5,000 lbs. galvanizing	.04	.05	.02	.10
20,000 lbs. bronze and copper	.75	.50	.50	.70
1,000 lin. ft. small steel pipes	.20	.50	.20	.25
100,000 lbs. handling and setting metal-work, etc., furnished by the city	.02	.05	.02	.05
2,200 acres clearing	100.00	75.00	60.00	50.00
400 acres grubbing	100.00	50.00	100.00	200.00
11,000 lin. ft. vitrified pipe not exceeding 8 ins. in interior diameter	.50	.50	.40	.60
7,500 lin. ft. vitrified pipe more than 8 ins. but not over 15 ins. in inside diameter	.90	.75	1.10	.80
3,000 lin. ft. vitrified pipe more than 15 ins. but not over 24 ins. in inside diameter	1.60	2.00	1.50	2.00
11,000 cu. yds. porous materials consisting of crushed stone, gravel and sand	2.00	2.00	1.50	1.75
15,000 cu. yds. porous materials consisting of cinders, gravel mixed with sand, etc.	2.00	2.00	1.50	1.75
200 cu. yds. clay	10.00	2.00	4.00	5.00
360 M. ft. B. M. timber and lumber	70.00	70.00	50.00	50.00
5,000 lin. ft. round piles	.40	.50	.30	.50
110,000 lin. ft. stone boundary walls	.80	.70	1.10	1.00
25,000 lin. ft. wooden fences and guard-rails	.30	.50	.30	.30
55,000 lin. ft. wire fencing	.50	.50	.50	.40
10,000 lin. ft. man-proof fence	.60	.50	.40	.50
Gate-house superstructure and appurtenances at New Rye dike (lump sum)	3,000.00	3,700.00	5,000.00	500.00
500 sq. yds. glazed tiles	10.00	3.00	2.00	2.00
15,000 lin. ft. electrical conduits	.15	.20	.20	.50
1,200 sq. yds. waterproofing	1.00	1.50	1.00	1.00
1,000 lin. ft. test-borings	5.00	5.00	3.00	5.00
15,000 cu. yds. macadam	3.00	7.00	2.75	2.00
1,000 cu. yds. telford base	2.50	3.00	1.50	1.50
600 cu. yds. surfacing for paths	3.00	3.00	2.50	1.75
9,000 sq. yds. asphalt block paving	2.25	2.50	3.00	2.00
10,000 sq. yds. brick paving	2.75	2.00	2.75	1.50
Total	$7,983,050	$8,849,015	$9,490,725	$8,782,310

Bond required: $1,000,000. Time: 120 months.

BRIDGE.—Buffalo, N. Y.—Bids were received by F. C. Stevens, Supt. Public Works, Albany, on Dec. 15, for the work of constructing a highway bridge over the Erie Canal at Georgia St., Buffalo. Itemized bids were as follows: (A) Engineer's estimate; (B) Lupfer & Remick, 590 Ellicott Sq., Buffalo, N. Y.; (C) Henry Tosh & Son, Port Byron, N. Y.:

	(A)	(B)	(C)
cu. yds. excavation	$0.61	$0.50	$0.80
cu. yds. lining	1.50	1.50	1.50
M. ft. B. M. creosoted lumber	75.00	70.00	80.00
lin. ft. foundation piles	.50	.85	.75
cu. yds. second-class concrete	7.00	7.00	7.50
lbs. structural steel	.40	.045	.045
sq. yds. wood block pavement	3.00	2.75	3.25
ming highway traffic, lump sum	1,200.00	1,200.00	1,625.00
t price to be paid to the State of York for the bridge superstructure place which is to be removed by the tractor without expense to the State	300.00	250.00	200.00
Total	$17,268	$18,121	$19,992

Contract 71—Providing for the construction of a lock and dam and for dredging in the Hudson River above Waterford, awarded to SHANLEY-MORRISSEY, INC., 527 Fifth Ave., New York, for $1,561,119, upon their reducing the price bid for excavation from $2 to $1.92 per cu. yd. The itemized prices of the bid as submitted were: (A) Engineer's estimate; (B) SHANLEY-MORRISSEY, INC.:

	(A)	(B)
Clearing (lump sum)	$500.00	$500.00
30 cu. yds. excavation	1.84	2.00
20 M. ft. B. M. sheeting and bracing	55.00	55.00
60 lin. ft. round timber bracing	.20	.20
00 sq. ft. channeling	.20	.24
20 cu. yds. forming embankment	.15	.15
00 cu. yds. lining	1.50	1.50
5 M. ft. B. M. sawed lumber (yellow pine or Douglas fir)	55.00	55.00
8 M. ft. B. M. white oak lumber in miter sills and lock gates	100.00	100.00
27,300 cu. yds. second-class concrete	7.00	7.00
820 cu. yds. second-class reinforced concrete	10.00	10.00
620 cu. yds. wash wall	2.25	2.50
830 sq. yds. third-class stone paving	1.75	2.00
300 cu. yds. first-class riprap	3.00	3.00
1,480 cu. yds. second-class riprap	3.00	3.00
300 cu. yds. third-class riprap	3.00	3.00
880 cu. yds. fourth-class riprap	2.50	2.50
18,500 lbs. structural steel	.05	.05½
41,500 lbs. metal reinforcement	.035	.04
13,700 lbs. iron castings, plain	.035	.04
8,600 lbs. iron castings, machined	.05	.05½
236,000 lbs. metal in lock gates	.055	.06
78,000 lbs. metal in buffer beams	.06	.06½
33,000 lbs. metal in lock valves	.09	.10
1,100 lin. ft. drilling bolt holes in rock	.60	.60
Coffer-dams, pumping, bailing and draining (lump sum)	14,000.00	15,000.00
Office building (lump sum)	250.00	300.00
Storehouse (lump sum)	850.00	1,000.00
Deduct price to be paid to the State of New York for buildings in place, which are to be removed by the contractor without expense to the State (lump sum)	500.00	500.00
Totals	$1,502,100	$1,615,519

Contract 70—The itemized prices of the bid of SHANLEY-MORRISSEY, INC., 527 Fifth Ave., New York (awarded Barge Canal Contract No. 7) providing for about three miles of dredging in the Hudson River above Waterford, were as follows: (This bid was the only one received on Dec. 28 by F. C. Stevens, Supt. Pub. Wks.): (A) Engineer's estimate; (B) SHANLEY-MORRISSEY, INC.:

	(A)	(B)
Clearing lump sum	$2,000.00	$2,000.00
757,600 cu. yds excavation	.95	.99
2 M. ft. B. M. sheeting and bracing	55.00	55.00
300 cu. yds. forming embankment	.15	.15
210 cu. yds. lining	1.50	1.50
140 cu. yds. second-class concrete	7.00	7.00
10,490 cu. yds. wash wall	2.25	2.25
200 cu. yds. first-class riprap	3.00	3.00
200 cu. yds. second-class riprap	3.00	3.00
200 cu. yds. third-class riprap	3.00	3.00
200 cu. yds. fourth-class riprap	2.50	2.50
6,500 lbs. iron castings, plain	.035	.04
Totals	$749,300	$779,636

BARGE CANAL.—Albany, N. Y.—Bids were received by F. C. Stevens, Supt. Pub. Wks., on Dec. 28, on four additional Barge Canal contracts, as noted last week. The bids in detail were as follows:

Contract 33—For constructing lock gates, needle beams, guard and sluice gates at various points, were: (A) Engineer's estimate; (B) Charles Longenecker & Co., 150 Nassau St., New York; (C) PENN BRIDGE CO., Beaver Falls, Pa. (awarded contract); (D) Massilon Bridge & Structural Co., Toledo, Ohio:

	(A)	(B)	(C)	(D)
8.5 M. ft. B. M. sawed lumber (yellow pine or Douglas fir)	$55.00	$60.50	$59.00	$55.00
55 M. ft. B. M. white oak lumber in lock gates and sluice	100.00	110.00	109.00	100.00
69 M. ft. B. M. sawed lumber in needles	75.00	82.50	80.00	75.00
50 cu. yds. second-class concrete	8.00	8.80	9.50	8.00
Guards for Saratoga Ave. bridge (lump sum)	50.00	150.00	50.00	50.00
940 lbs. metal reinforcement	.04	.04⅜	.045	.04
2,023,000 lbs. metal in lock gates	.05½	.07¼	.0593	.059
253,000 lbs. metal in needle beams	.05½	.07¼	.06	.066
380,000 lbs. metal in lock valves	.09	.12⅞	.10	.10
154,000 lbs. metal in guard gate	.05½	.07¼	.06	.06
37,500 lbs. metal in sluice gate	.05½	.07¼	.06	.066
17,300 lbs. machinery for movable dam	.12	.17	.14	.14
Total	$183,619	$255,794	$199,640	$199,822

MANUFACTURING PLANTS.

(Continued from page 6.)

BESSEMER, ALA.—A site has been selected for the plant of the Veitch-Matthews Engine Co., and it is stated that the company will locate in Bessemer. The committee, composed of Dr. J. A. B. Lovett, E. L. Huey and Dr. William Waldrop, have selected ground on Twelfth Ave. and 19th St.

COLUMBUS, OHIO.—See item under Light and Power Plants.

CLEVELAND, OHIO.—The Cleveland Tool Steel Co. is to build a plant in the spring, nearly doubling its capacity. A lot has been bought on East 82d St., and the building will cover 15,000 sq. ft. of ground. The lot was purchased by the Cleveland Tool Steel Co. of C. F. Brush, and is 200 × 150 ft. The building to accommodate the enlarged plant will be one story in height and of brick. The present plant of the concern is at the foot of West Third St.

INDIANAPOLIS, IND.—The American Dry Kiln Co., Edward Gerrard, Pres., has ordered plans for the construction of a dry kiln plant on Newman St. Estimated cost, $25,000.

Leslie Cannaroe, L. H. & J. C. Gordon will ask for bids soon for the construction of several concrete grain tanks of 100,000-bushel capacity, on the site of the Pennsylvania elevator. Estimated cost, $25,000.

KALAMAZOO, MICH.—It has been decided to increase the capital of the Bryant Paper Co. from $1,200,000 to $3,000,000 and to enlarge the plant. Frank Millan has been elected Pres. and C. B. Wing, of Cincinnati, Vice-Pres.

MILWAUKEE, WIS.—An addition to the factory of the Everwear Hosiery Co. at 172-178 Fifth St. will be erected that will double its capacity. Cost, $75,000.

KANSAS CITY, MO.—See item under Light and Power Plants.

SAN ANTONIO, TEX.—The Texas Louisiana Sugar Co., of San Antonio, Tex., will erect a sugar refinery at San Antonio. The company possesses 24,000 acres of beet land in the Rio Grande valley.

LAWTON, OKLA.—The E. L. Shuford Mfg. Co., of Lawton, Okla., has awarded contract to the HOLLEM & TRUITT LUMBER CO., of Lawton, for the erection of its mill building. This will be one story, 450 × 75 ft., and it is to be equipped with about 10,000 spindles and 300 looms for spinning yarns and weaving cloth. Noted on Dec. 23.

FORT BAYARD, N. MEX.—Bids are asked by Capt. S. P. Vestal, Constr. Q. M., until 11 a. m., Feb. 15, for the complete construction, plumbing, heating, electric light wiring, and electric light fixtures for one double set of Hospital Sergeants' quarters and one power plant with machinery for refrigerating and electric lighting systems at this post.

PORTLAND, ORE.—A wooden-ware factory to cost $15,000, is to be erected by H. H. Seivert, of Shawnao, Wis. The location is not decided upon.

ESCONDIDO, CAL.—The Escondido Lumber Co. will remodel and enlarge its plant and add equipment.

EL CENTRO, CAL.—The W. F. Holt Co., of Holtville, Cal., will break ground soon for a 3-story brick cold storage plant and creamery, 100 × 120 ft., to be erected at El Centro, Cal.

OAKLAND, CAL.—The National Electric Lamp Co. will commence erecting a factory on 16th St., near Compbell St., about the last of February or the first of March. This company has factories throughout the United States. Workmen will be brought here to do the construction work, but all the material to be used in building will be purchased in Oakland. J. R. Mussey, of Cleveland, Ohio, has made arrangements with the JUDSON IRON WORKS for the structural iron and steel. The building will be of brick with a heavy wall and is to be 224 × 60 ft., and two stories high.

SAN DIEGO, CAL.—The San Diego Consolidated Brewing Co. will enlarge its plant. Cost of improvements, $40,000.

GLOBE, ARIZ.—J. P. Hansen and Frank Glatnik have organized the Globe Foundry & Machine Co. to meet the demands of the mining district near Globe, Ariz. The company will construct a foundry, machine shop and pattern shop. It is estimated that $100,000 will be expended on the factory and equipment.

RENO, NEV.—Heinze Bros., owners of a beet sugar factory at Santa Anna, Cal., are taking up a project to erect a $600,000 sugar factory at Reno, Nev. Dr. C. A. Hascall, of Fallon, Nev., is interested also.

AQUEDUCT.—New York, N. Y.—Bids were received on Dec. 16 by the Board of Water Supply for Contract 53, for the construction of Grassy Sprain cut-and-cover, Platte Ave. siphon, and portions of Ardsley cut-and-cover, etc., as advertised in issue of Dec. 2. The itemized prices were as follows: (A) The ELMORE & HAMILTON CONTRACTING CO., Albany, N. Y. (awarded contract; (B) P. V. Smith Co., 125th St. and Lexington Contracting Co., New York; (C) David Peoples, 1000 Betz Bldg., Philadelphia, Pa.; (D) James M. Rodgers, 303 West 89th St., New York, and John J. Hagerty, 56 Lenox Road, Flatbush, New York; (E) Pittsburg Contracting Co., 1942 Forbes St., Pittsburg, Pa.; (F) Smith, Hannan, Hickey & Co., Memphis, Tenn., and St. Louis, Mo.; (G) the Foye-Root Co., 20 Broad St., New York; (H) Patrick McGovern, 6 Beacon St., Boston, Mass.; (I) Pennell, O'Hearn & Co., 3 Palisade Ave., Yonkers, N. Y.

		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
70,000	cu. yds.	removal of top-soil	$0.45	$0.50	$0.40	$0.40	$0.40	$0.50	$0.80	$0.55	$0.60
97,000	" "	open-cut excav., Type A, Stas. 407-433, 450-457 & 515-521	.45	.55	.58	.59	1.00	.82	.70	.85	1.50
80,000	" "	open-cut excav., Type B, Stas. 433-450, 457-464, 572 + 70 to 581	.60	.68	.70	.65	1.00	.82	.80	.90	1.27
34,000	" "	open-cut excav., Station 464 to Station 483, Type A	.75	.90	1.35	1.21	1.00	.82	1.10	1.75	1.50
90,000	" "	open-cut excav., Type B. Stas. 483-515 & 521-559 + 15	.45	.62	.58	.52	1.00	.82	.75	.95	.75
100,000	" "	open-cut excav., Type A, Stas. 581-622 & 631-666 + 55	.90	.95	1.35	1.33	1.00	.82	1.10	1.88	1.80
26,000	" "	open-cut excav., Station 622 to Station 631, Type A	1.00	1.12	1.39	1.63	1.00	.82	1.20	1.90	2.00
67,000	" "	refilling & embanking, Stas. 407-433, 450-457 & 515-521	.25	.27	.25	.28	.25	.25	.35	.25	.25
67,000	" "	refilling & embanking, Stas. 433-450, 457-464 & 572 + 70-581	.28	.27	.25	.28	.25	.25	.35	.25	.25
27,000	" "	refilling & embanking, Station 464 to Station 483	.30	.27	.35	.28	.25	.25	.50	.25	.25
87,000	" "	refilling & embanking, Stas. 483-515 & 521-559 + 15	.25	.27	.30	.28	.25	.25	.35	.25	.25
114,000	" "	refilling & embanking, Stas. 581-622 & 631-666 + 55	.35	.27	.40	.28	.25	.25	.50	.25	.30
8,000	" "	refilling & embanking, Station 622 to Station 631	.40	.27	.40	.28	.25	.25	.50	.25	.40
20,000	" "	surface dressing and grassing	.50	.50	.50	.50	.40	.60	.60	.50	.45
115,000	" "	concrete masonry for aqueduct in open cut & on embank	5.25	5.25	5.00	5.25	5.50	6.50	6.00	5.00	5.80
4,000	" "	concrete masonry for culverts, retaining-walls, etc	8.00	8.00	5.60	6.00	7.00	7.00	7.00	6.00	7.00
300	" "	reinforced concrete	10.00	15.00	9.00	12.00	12.00	8.00	12.00	6.00	10.00
100	" "	rubble masonry and paving in mortar	5.00	4.00	4.50	5.00	3.00	5.00	5.00	2.00	5.00
2,000	" "	dry rubble masonry and paving	2.75	2.50	3.00	2.50	3.00	3.50	3.00	2.00	3.00
2,500	" "	sand, gravel and broken stone	1.50	2.00	2.00	2.50	3.00	2.25	2.50	2.00	2.25
3,500	" "	surfacing macadam roads	3.50	3.00	4.00	3.00	3.00	3.00	4.00	2.50	3.00
6		sluice gates and gate valves for permanent works	100.00	100.00	100.00	100.00	100.00	75.00	90.00	100.00	200.00
20		gates and valves for works of sanitation	55.00	50.00	50.00	50.00	25.00	25.00	12.00	100.00	1.50
6		tons cast-iron pipe and special pipe castings	90.00	100.00	100.00	100.00	100.00	100.00	100.00	75.00	100.00
6,000	lin. ft.	tile pipe, 6 ins. or less in diameter	.60	.40	.25	.50	.25	.40	.50	.20	.50
1,000	lin. ft.	tile pipe, 8 ins. to 12 ins. inclusive in diameter	.90	1.00	.75	1.00	.35	.60	.75	.40	1.00
300	lin. ft.	tile pipe, larger than 12 ins. and not over 18 ins. in diameter	1.20	1.50	1.50	2.00	.75	1.00	1.25	.75	1.50
310	M. ft. B. M.	timber and lumber	60.00	5.00	50.00	70.00	50.00	60.00	60.00	40.00	67.00
		Testing six portions of aqueduct	750.00	900.00	700.00	500.00	250.00	500.00	600.00	800.00	500.00
1,500	lin. ft.	of exc. testing portions of aqueduct exceeding 200 ft. in length	2.00	1.60	2.00	2.50	5.00	3.00	3.00	3.00	1.00
100,000	lbs.	Portland cement	1.80	1.70	1.60	1.60	1.80	1.50	1.50	2.00	2.00
50,000	lin. ft.	stone boundary walls	1.00	.90	1.25	1.00	1.00	1.00	1.00	1.75	1.75
15,000	lin. ft.	wooden fences and guard-rails	.30	.40	.40	.40	.40	.40	.30	.25	.40
15,000	lin. ft.	man-proof fence	.40	.60	.70	1.00	.60	.75	.75	.30	.75
250,000	lbs.	steel for reinforcing concrete	.04	.04	.04	.04	.03	.04	.05	.05	.06
25,000	lbs.	cast-iron, wrought iron and steel	.06	.06	.07	.06	.10	.08	.07	.05	.09
2,000	lbs.	bronze	.60	.60	.70	.75	1.00	.60	.60	.50	.60
8,000	lbs.	galvanizing	.03	.02	.06	.05	.05	.05	.05	.05	.10
8		miles poles and other supports for telephone system	200.00	600.00	400.00	200.00	300.00	250.00	250.00	212.00	1,500.00
40		miles conductors and their appurtenances for telephone system	30.00	75.00	100.00	150.00	100.00	100.00	100.00	225.00	300.00
7		installing & maintaining tel. instruments & devices furnished by city	50.00	25.00	150.00	880.00	100.00	50.00	50.00	100.00	30.00
		Cleaning up (lump sum)	5,000.00	1,000.00	4,000.00	5,000.00	5,000.00	1,000.00	1,000.00	5,000.00	1,000.00
			$1,485,150	$1,526,055	$1,580,880	$1,593,020	$1,643,675	$1,684,315	$1,743,355	$1,798,471	$1,996,885

Time required: 42 months. Bond: $370,000.

GOLDFIELD, NEV.—The Tonopah & Goldfield R. R. Co. intends to rebuild its shops at Goldfield instead of Tonopah. The shops and round-houses of the company at Tonopah were burned some months ago. The company has announced that the shops will be built in Goldfield and that the general offices of the company will be established here. The shops will be double the size of the old shops in Tonopah. The construction will result in an expenditure of at least $100,000. H. R. Hanlan is Gen. Supt. and Pur. Agent.

SALT LAKE CITY, UTAH.—We are officially advised that the American Linen Supply Co., Salt Lake City, will erect, at once, a 2-story reinforced-concrete fireproof laundry building, 245 × 60 ft., at 33 East Sixth St. It will cost $40,000 for the building and $40,000 for equipment. The contract has been let to VILLADSEN BROS., Dooly Bldg., Salt Lake City. Fred Hale is Arch., Commercial Bldg., Salt Lake City. Steiner Bros. are owners.

MONTEREY, MEXICO.—Juan Terrazas, of Chihuahua, Mexico, has purchased a glass factory in Monterey. The plant will be enlarged for the manufacture of bottles, window glass and other products.

PHILIPPINES.—Bids are asked until 11 a. m., Jan. 8, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for ice and refrigerating machinery at the U. S. Naval Station, Olongapo, P. I. Specifications are on file at the office of Engineering News, New York.

MISCELLANEOUS.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

(denotes that this work is advertised in Engineering News.)*

TILE DITCH.—Decatur, Ind.—Bids will be received by C. C. Ernst, Supt. Construction, until 10.30 a. m., Jan. 8, for construction of the David J. Barkley tile ditch.

BOARDWALK.—Atlantic City, N. J.—Contract has been awarded to WILBERT BEAUMONT, Atlantic City, for widening the Boardwalk between Texas Ave. and Albany Ave., at $18,627.

CITY IMPROVEMENTS.—Regina, Sask.—The city of Regina has laid out a program calling for the expenditure of $500,000 on general civic improvements during the coming year. Address City Clerk, Regina.

DITCH.—Eldora, Iowa.—Bids will be received until noon, Jan. 12, by the Board of Supervisors of Hardin County for construction of a tile ditch and drain in Buckeye Township. R. A. Vigars, County Audr.

SPOKANE, WASH.—Bids will be received until 3 p. m., Feb. 9 by Jas. Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., for installing a vacuum cleaning system in the U. S. post-office, court-house and custom-house at Spokane.

PIER.—Long Beach, Cal.—The City Engineer has presented to City Council plans for strengthening the pier at foot of Pine St. Estimated cost, $88,289. The work will include the placing of 60,000 cu. yds. of rock and 700 cu. ft. of concrete.

DITCH.—Fort Dodge, Iowa.—Bids will be received until Feb. 3 by the Board of County Supervisors, for constructing a ditch and drain in county Drainage District No. 100, requiring 5,710 ft. of 16 to 7-in. tile, etc. G. P. Smith, Engr., Fort Dodge; J. L. Hanrahan, County Judge.

COAL-HANDLING PLANT.—Lucerne, Pa.—A coal handling plant, including power plant and coal tipple, will be built by the Rochester & Pittsburg Coal & Iron Co., at Lucerne, Pa., to handle the product of the company's mines at that point. L. W. Robinson is Prcs., Punxsutawney, Pa.

WHARF.—Marion, Mass.—Contract for new wharf at Steward's Island, Marion, Mass., 250 ft. long, has been awarded to J. C. TERRY, Fall River, Mass. The G. W. & F. SMITH IRON WORKS CO., of Boston, will furnish the steel. F. C. Wales, 8 Beacon St., Boston, is Engr.

MANUAL TRANSMITTER.—New York, N. Y.—Bids were received by the Fire Department as follows on Dec. 28 for furnishing and delivering a manual transmitter for the Fire Alarm Telegraph Bureau, Boro. of Manhattan: Gamewell Fire Alarm Telegraph Co., 19 Barclay St., $6,250; Frederick Pearce Co., 20 Rose St., $6,460.

FILLING AND GRADING.—New York, N. Y.—Bids were received on Dec. 21 by the Department of Public Charities for furnishing all the labor and materials required for filling and grading at Coney Island Hospital site on Ocean Parkway, north of Coney Island Creek, Boro. of Brooklyn. Lowest bidder was Frank J. Gallagher, 490 Park Pl., Brooklyn, at $9,740.

PIER.—Philadelphia, Pa.—Contract has been awarded by Jos. F. Hasskarl, Acting Dir., Dept. Wharves, Docks and Ferries, for constructing substructure of Vine St. pier No. 19, North, Delaware River, to W. S. P. SHIELDS, Witherspoon Bldg., Philadelphia, at $294,000. Bids were received on Dec. 10, and lists of bidders and prices submitted were given in the issue of Dec. 16.

DREDGING.—New York, N. Y.—Bids were received as follows on Dec. 30 by Allen N. Spooner, Comr. Docks and Ferries, for dredging about 200,000 cu. yds. in North River, Boro. of Manhattan: Henry Du Boise Sons, 17 State St., 13¾ cts. per cu. yd.; W. H. Beard, 21 State St., 16 cts.; P. Sanford Ross, Jersey City, 15 cts.; R. G. Packard Co., 130 Pearl St., 14 cts.

RECONSTRUCTING FERRYBOAT.—New York, N. Y.—Bids were received as follows on Dec. 29 by the Department of Docks and Ferries on Contract No. 1121, for furnishing all the labor and materials required for reconstructing the municipal ferryboat "Castleton": J. W. Sullivan & Co., 827 East Ninth St., New York, $38,473; Waters, Gildersleeve Clever Co., $54,200; James Shewan & Son, foot Houston St., New York, $40,900.

EQUIPMENT, FURNITURE.—New York.—Bids were received by the Department of Parks on Dec. 30 for work and materials for furniture and equipment of the new Public Library, Fifth Ave. and 42d St., as follows: Cobb Construction Co., 47 Liberty St., $543,-750; Library Bureau, 316 Broadway, $662,-053; H. H. Davenport, 150 Madison Ave., 679,000; L. Marquet, 142 Bleeker St., $615,-375; Thos. D. Wadelton, 160 Fifth Ave., $544,700; George W. Smith, 334 Fifth Ave., $558,000; John Gill & Son, 12 West 31st St., $597,000.

TUNNEL.—Los Angeles, Cal.—The Los Angeles County Highway Commission has awarded contract for the construction of a highway tunnel and approaches aggregating one mile in length, between San Fernando and Newhall, Cal., to E. E. SHAFFER, Los Angeles, at $63,364, which was the lowest bid received. Bids on the concrete culvert on Foothill Boulevard were rejected and the work will be readvertised, together with other work in that vicinity. The tunnel is to be lined with concrete; the inside width being 20 feet and the height being 17 feet in the clear. The length of the tunnel is 435 ft. The character of the excavation is soft sandstone, shale, with occasional beds of red conglomerate. Arthur E. Loder is Ch. Engr., International Bank Bldg.

BULKHEAD.—New York, N. Y.—Bids were received as follows by the Department of Docks and Ferries on Dec. 21, on Contract No. 1027, for furnishing all the labor and materials required for preparing for and building a bulkhead wall, with appurtenances, at Whale Creek, Boro. of Brooklyn, and for furnishing and depositing riprap thereat: McHarg-Barton Co., 165 Broadway, $51,134; Grant Rohrer, 299 Broadway, $57,800; North-Eastern Construction Co., 225 Fifth Ave., $53,740; N. Y. State Construction Co., 1328 Broadway, $56,109; Phoenix Construction Co., 41 Park Row, $54,897; E. De V. Tompkins, 81 East 125th St., $54,-587; W. H. Jenks, 59 Pearl St., $60,250; Geo. B. Sperin, $55,388; R. P. & J. H. Staats, 29 Broadway, $61,250; N. Y. Submarine Constructing Co., 130 Pearl St., $56,190; Godwin Construction Co., 30 Church St., $51,789; Cooper & Evans, 220 Broadway, $51,700; Bart S. Uronin, $51,700.

DRAINAGE.—Fremont, Neb.—Bids were received on Dec. 15 by the Board of Directors of Elkhorn River Drainage District. Four bids only were received and each bidder was awarded a portion of the work, as follows:

STANDARD DRAINAGE CO., Windom, Minn., Cut-offs A, B, C, E, F, G, H, I, J, K, L, M, N, O, P, Q, R and S., 213,800 cu. yds. excavation, 19,900 cu. yds. embankment, 120.39 acres clearing and grubbing. Price, $29,670.

J. B. ARPIN DREDGING CO., Grand Rapids, Wis., Ditches 1, 2, 2a, 2b, 4a, 4b, 4d, 4g, 5, 6, 7, 6b, 7a, 9, 10, 11, 12 and Gayton ditch, 406,340 cu. yds. excavation, 2 acres clearing and grubbing. Price, $53,351.

HORTON & MOSELEY, Lafayette, Ind., Ditches 3 and 4, 179,800 cu. yds. excavation, 3,500 cu. yds. embankment. Price, $17,712.

A. C. MILLER, Redwood Falls, Minn., Ditches 8 and 8a, 223,800 cu. yds. excavation. Price, $19,763. Total contract price, $120,496.

Engineer's estimate: 1,023,740 cu. yds. excavation, 23,400 cu. yds. embankment, 122.39 acres clearing and grubbing; estimated cost, $123,949.

At the same time and place the Board of Directors of the Elkhorn Valley Drainage District awarded the contract for the extension of above-mentioned ditch 3 through their district to HORTON & MOSELEY at engineer's estimate, 58,800 cu. yds. at $0.100 per cu. yd. Roy N. Towl of Omaha, Neb. is Engineer for this contract. Arthur H. Norris is Engr., Elkhorn River Drainage Dist., Fremont.

U. S. POSSESSIONS.

DREDGE.—Panama.—Bids were received as follows on Jan. 3 by the Isthmian Canal Commission, Washington, D. C., for furnishing one ten-yard dipper dredge to be delivered knocked down at Colon or Ancon on the Isthmus: The only bidder was the Moran Co., Seattle, Wash., which bid $210,033 for the dredge complete; the bid included $51,079 for the hull; $35,097 for the engines, and $123,857 for the A-frame and all outside parts; delivered at Ancon in 300 days.

BUCKET CONVEYOR AND ENGINES.—Panama.—Bids were received as follows on Dec. 31 by the Isthmian Canal Commission, Washington, for one bucket conveyor complete and one driving engine to operate conveyor and rock crusher: George V. Cresson Co., Philadelphia, (a) conveyor, $4,450; (b) engine, $10,300. Jeffrey Mfg. Co., Columbus, Ohio, (a) $6,400. Link Belt Co., Philadelphia, (a) $4,480. Motley, Green & Co., 68 Broad St., New York, (a) $7,263, $5,763; (b) $4,350, $5,125, $5,295. Power & Mining Machinery Co., 115 Broadway, New York, (a) $6,975; (b) $7,985. Stevens-Adamson Mfg. Co., Aurora, Ill. (a) $7,263. Allis-Chalmers Co., Milwaukee, Wis., (a) $5,525; (b) $8,700. Exeter Machine Works, Pittston, Pa., (a) $7,600.

LUMBER.—Panama.—Bids were received as follows for lumber on Dec. 23 by the General Purchasing Officer of the Isthmian Canal Commission, Washington, D. C.: Some of the bids were on 1,501,000 ft. B. M. (a), and others on 1,051,000 ft. B. M., (b) the latter quantity being desired by the Isthmian Canal Commission: A. S. Bacon & Sons, Savannah, Ga. (a) $38,651; 120 days; Bay Shore Lumber Co., Mobile, Ala., (a) $36,945; 59 days. G. Elias & Bro., Buffalo, (a) $36,-523; 120 days. William D. Gill & Sons, Baltimore, (a) $40,827; 120 days. D. L. Gillespie & Co., Pittsburg, (b) $25,618; 90 days. Gress Mfg. Co., 18 Broadway, New York, (a) $37,592. J. J. Newman Lumber Co., St. Louis, (a) $33,317; 108 days. W. R. Grace & Co., San Francisco, (b) $23,122; 38 days. J. K. Joice, Chicago, $27.40 per thousand; 25 days.

EXAMINATIONS.

ENGINEER AND PLUMBER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 2, to secure eligibles from which to make certification to fill a vacancy in the position of Engineer and Plumber, $800 a year, at the Colville School, Washington, and vacancies requiring similar qualifications as they may occur, unless it shall be decided in the interests of the service to fill the vacancy by reinstatement, transfer, or promotion. Age limit, 20 years. Application form 1800.

DRAFTSMAN.—Philadelphia, Pa.—The U. S. Civil Service Commission announces an examination on Jan. 26, 27, 28, to secure eligibles from which to make certification to fill a vacancy in the position of Senior Mechanical and Optical Draftsman at the Frankford Arsenal, Philadelphia, Pa., at $1,600 a year, and vacancies requiring similar qualifications as they may occur in the Ordnance Department at Large throughout the United States, unless it shall be decided in the interests of the service to fill the vacancy mentioned by reinstatement, transfer, or promotion. Age limit, 18 years. Application form 1312. Applications must be filed prior to closing hour on Jan. 15.

ENGINEER, DESIGNER, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations on Jan. 22 for the following positions:

Assistant Bacteriologist, Department of Health, $900 to $1,200.

Assistant Supervisor of Equipment, Public Service Commission, Second District, $2,000 to $2,600 per year. Five years experience as locomotive engineer required.

Bridge Designer, $1,500 to $2,100.

Bridge Draftsman, $1,200 to $1,500.

Deputy Factory Inspector, $1,000.

Director of Laboratories, Department of Health, $3,000.

Steam Engineer, Albany County Service, $900. Residents of Albany only.

Water Analyst, Department of Health, $720 to $900.

Applications should be filed on or before Jan. 15. For detailed circular and application blank, address the State Civil Service Commission, Albany, N. Y.

LIST OF CONTRACTS PENDING.

Light, Heat and Power Plants.

1- 7 Elec. fixtures, etc., New York....12-30
1-11 Remod. elec. plant, National Soldiers' Home, Va..... 1- 6
1-14*Trans. lines, Richmond, Va.....12-30
1-15 Power-house, etc., Stillwater, Okla 1- 6
1-17*Light plant, Macon, Miss.....12-30
1-20 Elec. light system, Fort Williams, Me 12-30
1-21 Remodeling power plant, Washington, D. C. 12-23
1-29 Lighting fixtures, Chicago, Ill... 1- 6
1-29 Elec. light system, Takoma Park, D. C..... 1- 6
2- 2*Conduit, Chicago, Ill..... 1- 6
2-15*Equipment, Winnipeg, Man.....12-30

Bridges.

1- 7 Abutment repair, Cincinnati, O..12-16
1-11 Bridges, Yorx, Neb.....12- 9
1-11 Bridges, Geneva, Neb.....12-30
1-11 Bridge, Murfreesboro, Ark..... 1- 6
1-11 Bridges, Nebraska City, Neb..... 1- 6
1-12 Bridge, Buckley, Ill..... 1- 6
1-12 Bridges, Grand Island, Neb.....12-23
1-14 Bridge, Cincinnati, Ohio.....12-23
1-14 Viaduct, Portland, Ore.....12-30
1-15 Bridge, Florence, Ariz.....12-16
1-15 Bridge, Dallas, Tex 12-16
1-17 Bridge, West Union, Ohio.....12-30
1-18 Bridge, Wagoner, Okla.....12-30
1-18*Superstructure, Winnipeg, Man..12-16
1-18*Bridge, etc., Philadelphia, Pa.... 1- 6
1-20 Bridge, San Antonio, Tex.....12-30
1-21*Bridges, Jacksonville, Fla..... 1- 6
1-24*Bridge, Monroeville, Ohio.....12-30

Buildings.

1- 7 Building, New York.....12-30
1- 8 Buildings, Columbus, Ohio.....12-23
1- 8 Refrig. mach., Philippines..... .....(Mfg. Pl.) 1- 6
1- 9 School, Shreveport, La.....12-30
1-10*Post-office, Lima, Ohio 12- 2
1-10*Storehouse, Ft. Monroe, Va.....12- 9
1-10 Stable, Ft. Mackenzie, Wyo.....12-16
1-11 Dormitory, New York 12-30
1-11 Post-office, Chester, Pa.....12- 9
1-12*Post-office, etc., Bristol, Tenn....12- 2
1-13*Post-office, Manchester, N. H....12- 9
1-14 Post-office, Emporia, Kan 21-23
1-15*Buildings, Ft. Sill, Okla.....12-23
1-15 Cottages, etc., Storrs, Conn..... 1- 6
1-15 Hospital, etc., Elmira, N. Y..... 1- 6
1-17 State house, Dover, Del 12-23
1-17*Post-office, Henderson, N. C....12-16
1-17 Schools, New York 1- 6
1-25*Post-office, Pawtucket, R. I.....12-23
1-26*Building, Ft. Monroe, Va.....12-30
1-26*Cottages, Kings Park, N. Y..... 1- 6
1-27 Stable, Vancouver, Wash..... 1- 6
1-31*Post-office, Goldsboro, N. C.....12-30
2- 7 Prison, Stillwater, Minn.....12-30
2- 8 Post-office, Meridian, Miss..... 1- 6
2-10*Post-office, Lynchburg, Va.....12-23
2-14 Post-office, Lead, S. Dak 12-23
2-16 Refrig. mach., Ft. Bayard, N. Mex .....(Mfg. Pl.) 1- 6
2-17*Post-office, Denver, Colo..... 1- 6
2-24 Post-office, Rock Island, Ill.....12-30
3- 1 Post-office, Hot Springs, Ark.... 1- 6

Water-Works.

1- 8 Pump, Vallejo, Cal..... 1- 6
1- 8 Water pipe, East Cleveland, Ohio 1- 6
1- 9 Headgate, Lamar, Colo 12-23
1-10 Water-works, Broken Arrow, Okla 12-23
1-10 Pumping plant, Petersburg, Va....12-30
1-11 Water-works, Cawker City, Kan..12-30
1-11*Aqueduct, New York 12-23
1-11 Tank, Dodgeville, Wis..... 1- 6
1-12 Water mains, New York..... 1- 6
1-12 Filter house, Wilmington, N. C...12-23
1-12 Pipe, Vancouver, B. C.....12-30
1-12 Water-works, Hebron, Neb.....12-30
1-15 Pumps, Stratford, Ont.....12-30
1-17*Irrigation tunnel, Porto Rico 12-30
1-17 Water-works, Ralston, Okla..... 1- 6
1-18*Siphons, etc., New York.....12-30
1-18 Sluice-gates, New York 12-30
1-22*Wells, etc., Jackson, Miss.....12-16
1-21 Pumping station, etc., Ft. Mason, Cal 1- 6
1-25*Siphon, New York..... 1- 6
2-15 Water-works, Midland, Tex..... 1- 6

Sewers.

1-10 Sewer, Sapulpa, Okla.....12-30
1-10 Sewer, Jersey City, N. J..... 1- 6
1-10 Sewers, Oklahoma City, Okla.... 1- 6
1-10 Sewer, Fort Dodge, Iowa 1- 6
1-11 Sewers, Buffalo, N. Y..... 1- 6
1-11*Sewers, Denver, Colo 12-23
1-11*Pipe sewers, Charleston, S. C...12-23
1-12 Sewer, Holton, Kan.....12-16
1-12 Sewers, Hebron, Neb.....12-30
1-12 Sewer system, Quincy, Fla..... 1- 6
1-13 Sewers, Traer, Iowa 12-16
1-14*Sewers, Denver, Colo. 12-23
1-15 Sewer, Collinsville, Ill..... 1- 6
1-17 Sewer, Montgomery, Ala..... 1- 6
1-18 Sewer system, North Pelham, N. Y 1- 6
1-18*Sewer, Philadelphia, Pa. 1- 6
1-19 Sewerage works, Prince Rupert, B. C. 12-23
1-26 Sewers, Boone, Iowa..... 1- 6
2- 1 Sed. basins, Ardmore, Okla..... 1- 6
2-15*Sewer outlet, etc., Toronto, Ont..12-23
2-16*Sewer system, Lawton, Okla. 12-30

Streets and Roads.

1- 6 Road, Ft. Mason, Cal..... 1- 6
1- 7 Road, Dunlap, Ohio.....12-30
1- 8 Grading, Ft. Leavenworth, Kan..12-23
1- 8 Street impvt., East St. Louis, Ill...12-30
1- 8 Grading, etc., Ishpeming, Mich.... 1- 6
1-10*Paving, Elk City, Okla 12-23
1-11 Paving, New York 12-30
1-12 Street impvt., Glendale, Ohio.... 1- 6
1-12 Street materials, Baltimore, Md.. 1- 6
1-19*Paving, Birmingham, Ala..... 1- 6

Miscellaneous.

1- 7 Repairing ferryboats, New York.12-30
1- 7 Repairing scows, New York.....12-30
1- 8 Drain, Crawfordsville, Ind.....12-30
1- 8 Widening ditch, etc., Lima, Ohio..12-30
1- 8 Sanitary carts, Jeffersonville, Ind.12-30
1- 8 Drainage, Dakota City, Neb.....12-30
1- 8 Ditch, Marion, Ind.....12-30
1- 8 Earth work, Ft. Leavenworth, Kan 12-23
1- 8 Dredging, quay walls, New York.12- 9
1- 8 Tile ditch, Decatur, Ind. 1- 6
1-10*Rebuilding runway, New London, Conn 12-30
1-10*Embankment, Greenville, Miss....12-30
1-10 Cement, Chicago, Ill.....12-30
1-10 Removing pier, etc., New York...12-30
1-11 Ditch, Madison, Minn.....12-30
1-12 Sand, etc., Baltimore, Md.....12-30
1-12 Ditch, Eldora, Iowa 1- 6
1-15 Marine railway, Key West, Fla..12-16
1-15 Tile drain, Boone, Iowa 12-23
1-18 Dry dock, New York 10-21
1-18 Timber, etc., Ottawa, Ont.....12-30
1-20*Levee, ditches, Carrollton, Ill....12-30
1-22 Ditches, Grand Falls, Tex.....12-30
1-22 Levee embankment, etc., Caldwell, Tex 12-30
1-27 Jetties, dikes, New York 12-23
2- 1 Monuments, Ottawa, Ont. 10-21
2- 3 Ditch, Fort Dodge, Iowa 1- 6
2-15 Torpedo boats, Washington, D. C.12-23

Examinations.

1-12 Inspector, New York, N. Y.....12-23
1-12 Engr.-Physicist, Washington, D. C.12-23
1-19 Asst. Chemist, Washington, D. C.12-23
1-19 Agricultural Asst., Wash., D. C..12-23
1-19 Engr. in Wood Preservation, Denver, Colo. 12-23
1-22 Water analyst, Albany, N. Y.... 1- 6
1-22 Steam Engr., Albany, N. Y. 1- 6
1-22 Director of Laboratories, Albany, N. Y. 1- 6
1-22 Deputy Factory Inspector, Albany, N. Y. 1- 6
1-22 Bridge Draftsman, Albany, N.Y.. 1- 6
1-22 Bridge Designer, Albany, N. Y.. 1- 6
1-22 Asst. Superv. of Equip., Albany, N. Y. 1- 6
1-22 Asst. Bacterioligist, Albany, N.Y. 1- 6
1-26 Draftsman, Philadelphia, Pa. 1- 6
2- 2 Engr. and Plumber, Wash., D. C. 1- 6

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
1- 8	Refrig. Mach., Philippines..(S.)	1- 6
1-14*Trans. lines, Richmond, Va.	.....(P. & S.)	12-30
1-14	Viaduct, Portland, Ore..(P.& S.)	12-30
1-15	Pumps, Stratford, Ont.....(S.)	12-30
1-17*Light plant, Macon, Miss...	(S.)	1- 6
1-17*Irrigation, Porto Rico...(P.& S.)		10-21
1-18*Superstructure, Winnipeg, Man.	.....(P. & S.)	12-16